



The **CABLE**
1931

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• PETER • COOPER •

1931

TABLET

The Yearbook of
COOPER

UNION

Published by the
Class of 1932

NEW YORK

The 1931
CABILLE



The Yearbook of
COOPIER
UNION
Published by the
Class of 1932

N E W Y O R K



Dedication

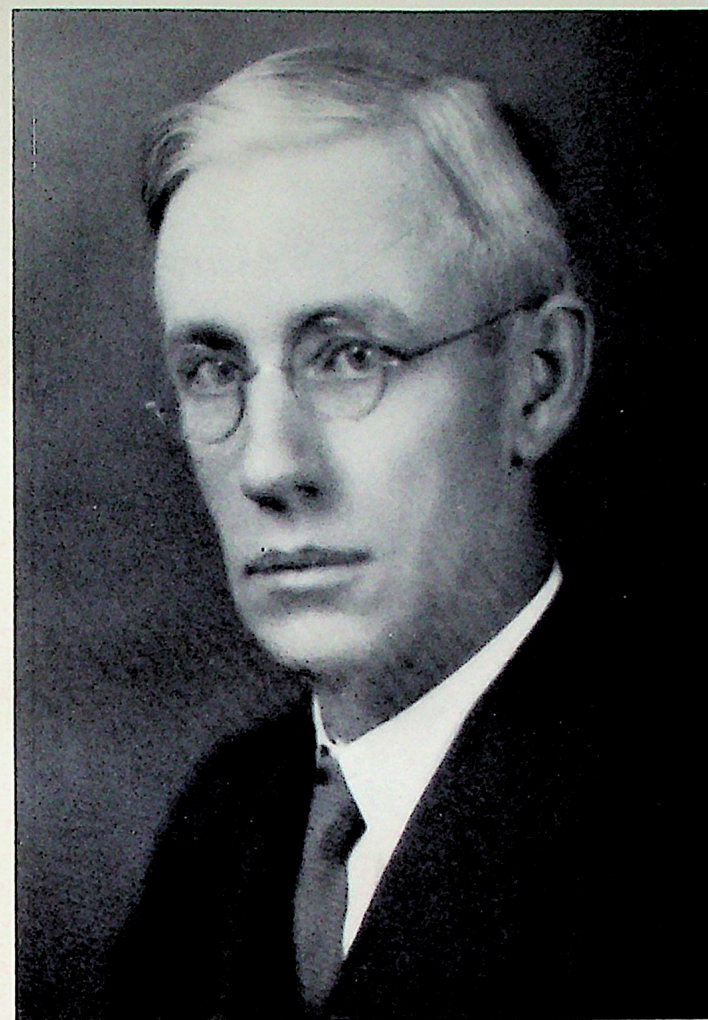


IN grateful acknowledgment to one who has unceasingly devoted himself to help us attain that final goal of achievement—success—we wish to express through what small means lie within our power our appreciation of his efforts and aid by dedicating to him,

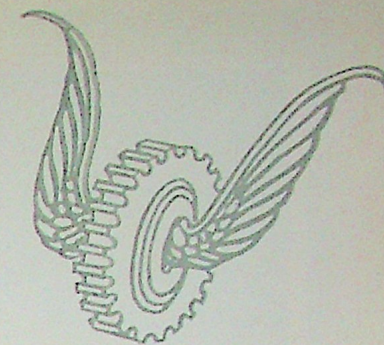
Professor William J. Pickett

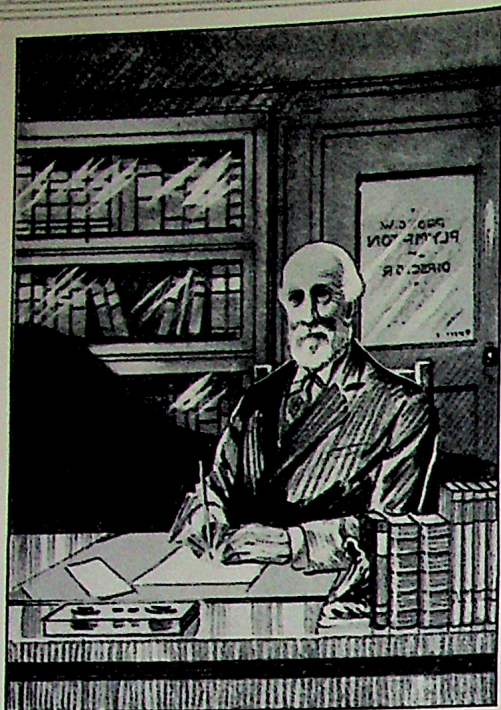
this, the 1931 year book of "The Cooper Union",

THE CABLE



Professor
WILLIAM J. PICKETT



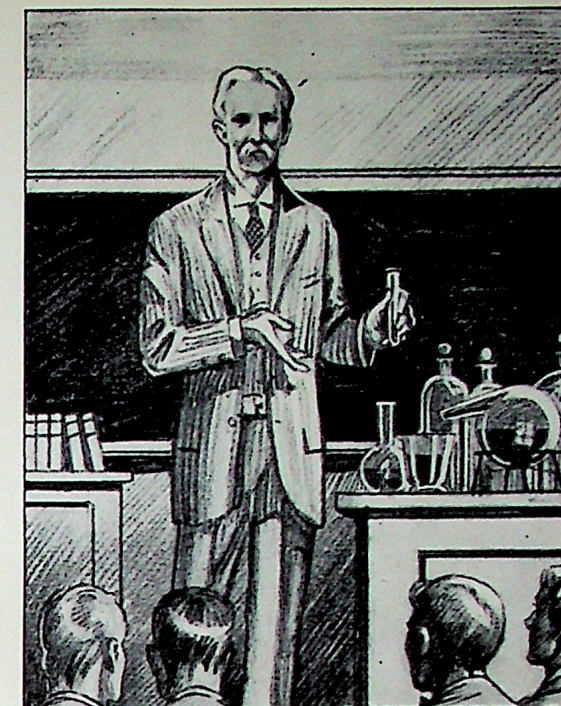
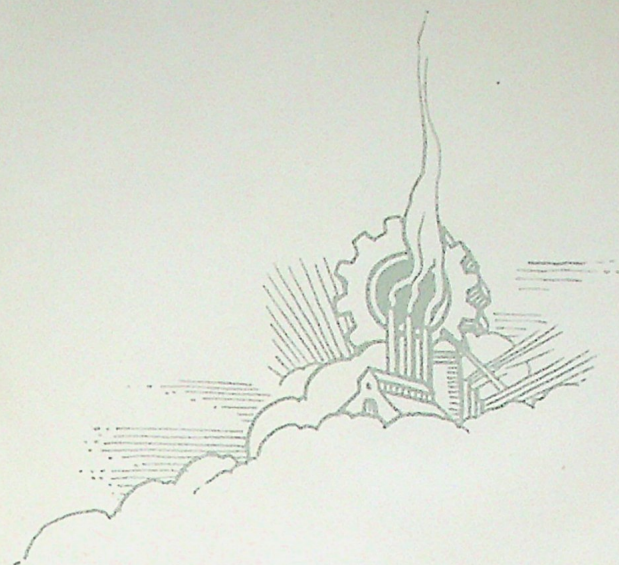


GEORGE WASHINGTON PLYMPTON

Director from 1880 to 1907. Coordinator of scientific courses into what was known as the General Science Course from which has grown the Cooper Union Engineering Courses of today.

The story in our Cable

Armed with knowledge gained through the years spent at their Alma Mater, graduates have forged their way along life's rugged roadway, casting aside obstacles in their paths, fighting onward to at last reach the goal of outstanding achievement. The story that is told through the pages of this book, by our own graduates, should inspire those who follow their trails to further glorify our Alma Mater.



ROBERT SPICE

Professor of Chemistry 1889 to 1916. Beloved for his sympathetic human understanding and famed for the brilliancy of his experimental lectures.

CONTENTS

- THE UNION
- THE FACULTY
- THE CLASSES
- THE SPORTS
- THE ORGANIZATIONS
- THE FRATERNITIES
- THE ACTIVITIES



IN MEMORIAM

Sarah Cooper Hewitt

Date of Birth
October 26, 1859

Date of Death
October 16, 1930

Worthy descendant of our illustrious Founder, she inherited his rare qualities of farsighted vision and sound judgment. Co-operating with her sisters, she was instrumental in the founding of our Museum for the Arts of Decoration.

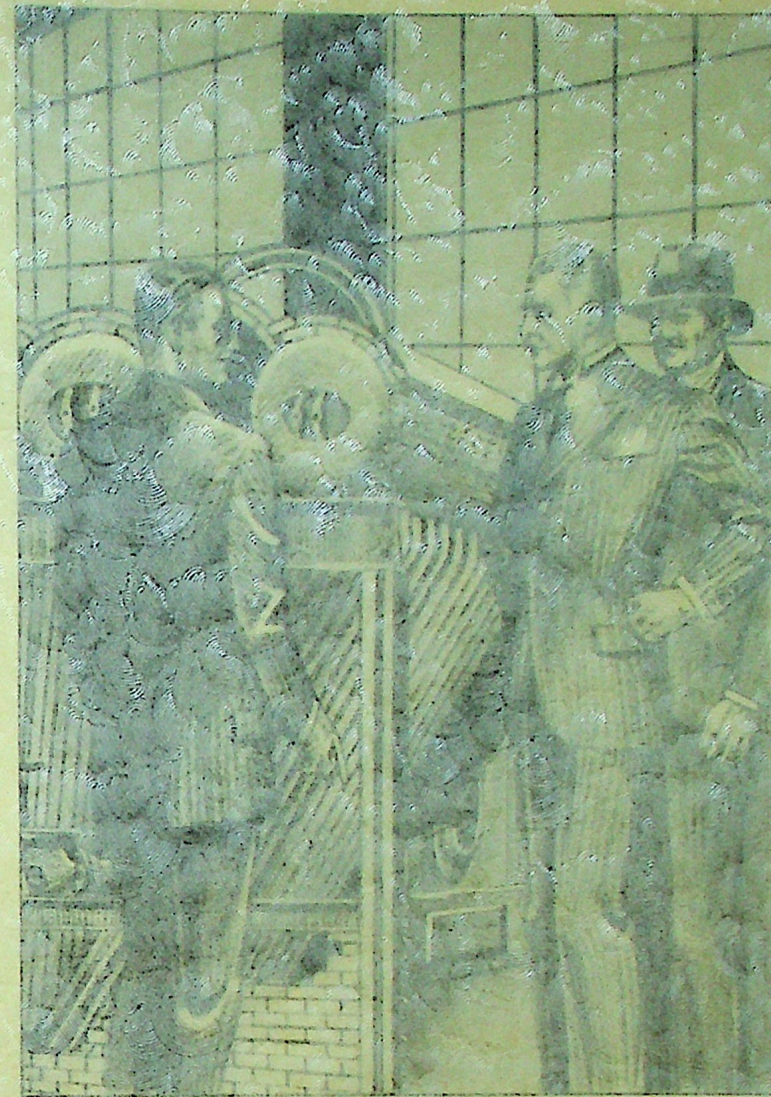
Possessor of a personality marked by a rare spiritual charm, as well as by an indomitable courage, her service to our Alma Mater was continued through her last long and painful illness, and her passing has left a gap which can never be filled.

Charles William Gould

Date of Birth
August 19, 1849

Date of Death
March 18, 1931

Patron of the Arts and of Education, representative of the finer qualities found in early American stock, possessed of an intellect marked by its keenness and the lightning nature of its working, he brought rare talents for the use of the Union by his appointment as a Trustee.



ALLAN STIRLING
Class of 1870

Inventor of the boiler which bears his name and shown above with an actual model.

The UNION

IN MEMORIAM

Sarah Cooper Hewitt

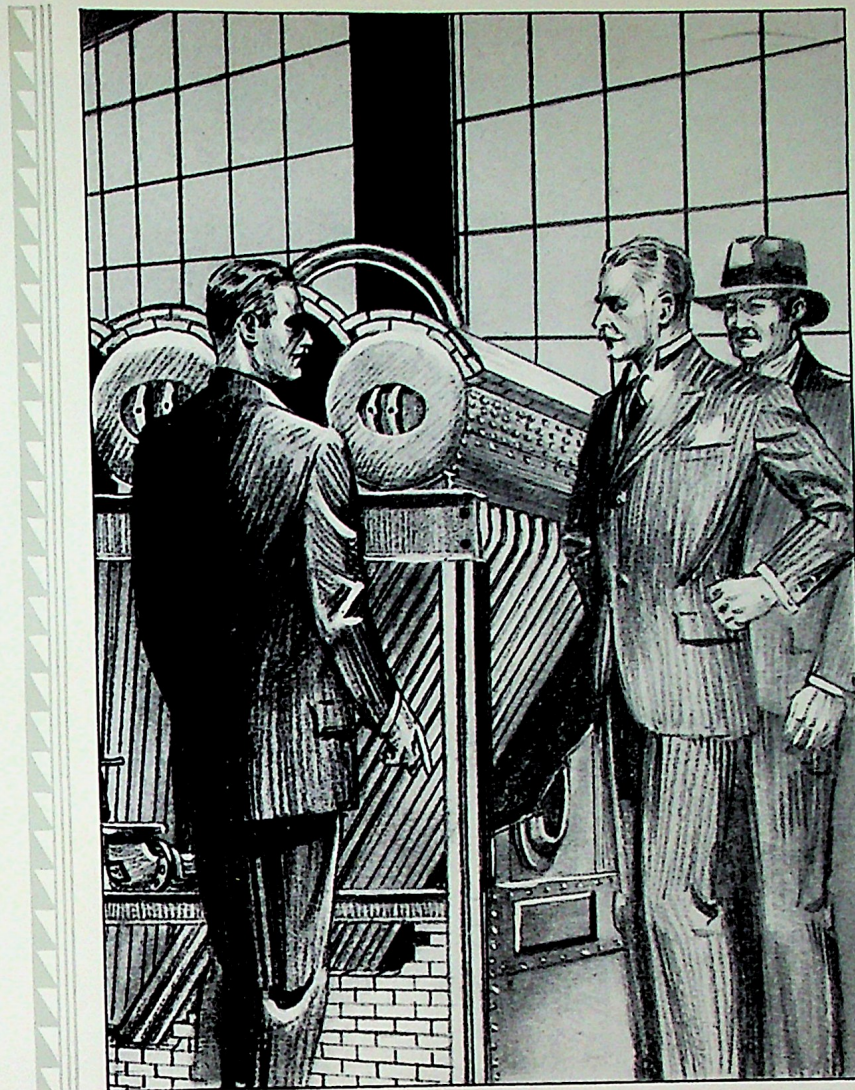
Date of Birth
October 26, 1859

Worthy descendant of our illustrious family,
rare qualities of foresight, vision and energy,
operating with her sisters, she was a member
of our Museum for the Arts of Design.
Possessor of a personality marked by
as well as by an indomitable courage,
her Mater was continued through her life,
and her passing has left a gap which

Charles William Johnson

Date of Birth
August 19, 1849

Patron of the Arts and of Education,
finer qualities found in early America,
intellect marked by its keenness,
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ALLAN STIRLING

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Inventor of the boiler
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The UNION

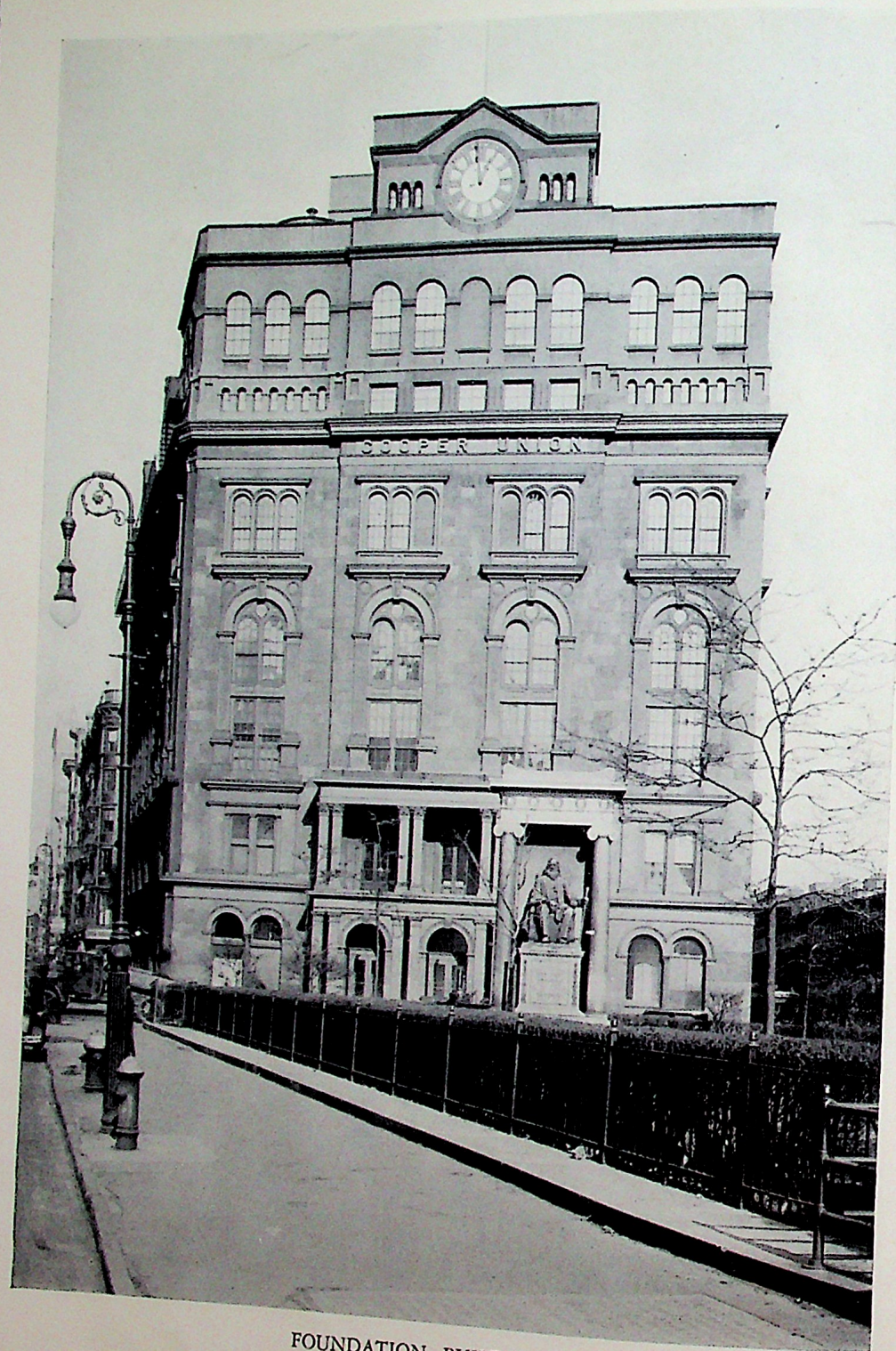
1931 CABLE



FOUNDATION BUILDING
Rear Entrance at Night

Thirteen





FOUNDATION BUILDING
Main Entrance



Our Alma Mater

TO THOSE who have spent a number of years within the walls of their college it has become something more than a place of higher learning; it has burned itself deep in their hearts; an everlasting impression of days that are no more. Its history, its traditions, all have a place in their memories. And to us who are still here, the spirit which prompted the Founder to erect such an institution, has instilled in our veins the desire to justify his faith in us by making fit use of his gift. For many years Peter Cooper fostered the idea of creating a place where those who were eager to obtain knowledge could get it. Very few people have the tenacity of purpose and foresight of this grand elderly benefactor as we picture him. As we go through the history of his life and incidents therein it is hardly conceivable that a person would continually keep such a noble purpose uppermost in his mind.

The early part of his life held very little in the way of an education, handicapped as he was by the limited means of his family and his own delicate constitution. Later, by his own hard efforts, he garnered the essentials of an education, and by close observation of the people he associated with and the things they were interested in, acquired those assets which make the outstanding men of the age; the ability to think clearly and ahead, make his own decisions, and still keep the unaffected manner of his personality. Always forging ahead, his path led to the realm of invention. Of the many enterprises which he entered, each reaped the benefit of his thinking mind; failure never occurred to him. Peter Cooper was also prominent in the political aspect of his native city, and about this time (1845) the land value of two of his factory sites became too great for the purpose they were put to, namely, his glue factory and iron works. These factories were removed to be replaced by the homes of the fast-growing city. Through all this he still dreamed of the day when he could at last lay the foundation of his cherished hopes. Separated from this by the year spent in his connection with the laying of the St. Lawrence and Atlantic Cables, he at last reached the point where he could start the realization of his colossal project, the building of The Cooper Union. For over thirty years he had gradually acquired property as it was offered for sale in the vicinity of his proposed site until the time came when he had sufficient land and funds to go ahead. Even at that time he was delayed, and it is told with interest how, one day, as the wrought-iron beams, designed and made by him in his own ironworks, lay piled on the ground, a member of the firm of the well-known Harper's Publishing Company chanced to pass. The building housing the publishers had recently burned to the ground and they were looking for another location. The sight of the iron beams brought hopes of a fireproof building and, upon requesting audience with Mr. Cooper, finally arranged for the purchase of them at a tremendous profit. This extra income was also used for the





HEWITT MEMORIAL BUILDING
Main Entrance



erection of the building. Had not the incident occurred, the present foundation building would have been the first fireproof one of its kind.

Such was the moving spirit behind the great monument that today stands to the credit of Peter Cooper. In those days the City of New York lay mostly at the lower end of Manhattan Island, and where the building now stands was considered quite a way uptown; consequently, the front and back entrances are often confused, and it is well not to let father time obscure the fact that the southern entrance is really the front of the building.

With the passing of our beloved Founder, not only did this nation suffer a great loss, but also many others with whom his work brought him in contact. During his later years Mr. Cooper was very ably assisted in the work of the school by his son-in-law, Abram S. Hewitt, who, after the Founder had gone to his well-earned rest, took the reins of the school in hand and completed a service of forty-five years as secretary of THE COOPER UNION. It was just as if the Founder had carried on the work himself, so ably did Mr. Hewitt fulfill his position.

As time went on, the courses which had been established, being more or less un-coordinated, needed the guidance of persons well versed in the sciences and the understanding of personalities. With the coming of Professors Plympton, Spice and Anthony, these courses began to take new life. They were started on the road of a completely organized course of study and are really the beginning of the fine courses which are now available. So great was the work of this famous trio that it marked a new era in the history of the school and in another section of this book there will be found intimate glimpses of these outstanding personalities.

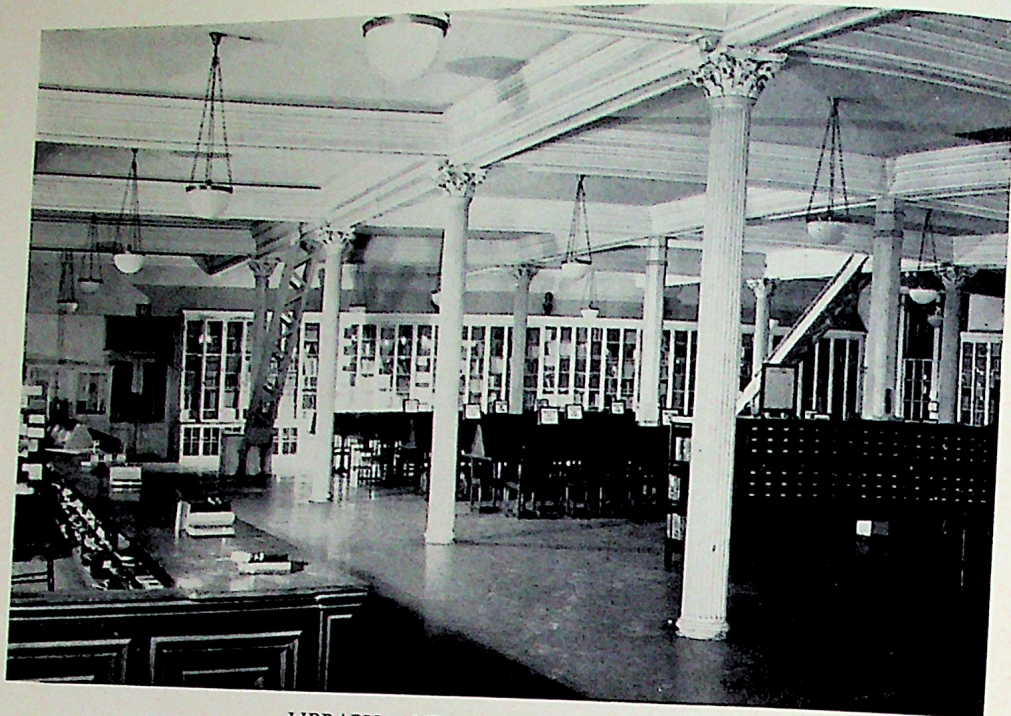
A great amount of credit is also due Dean Hartmann for the wonderful manner in which he has enlarged and modernized the courses which we have today. Appropriations made from time to time keep all of the equipment in up-to-date form throughout the school so that its facilities are comparable with the best courses of instruction in other colleges throughout the world.

Even the student has not been forgotten. For many years, the Administration had been conscious of the inadequacy of the library facilities in meeting the special needs of Cooper Union students. Many plans for improvement had been suggested in the past, but the accompaniment of too great a financial expenditure always prevented their adoption.

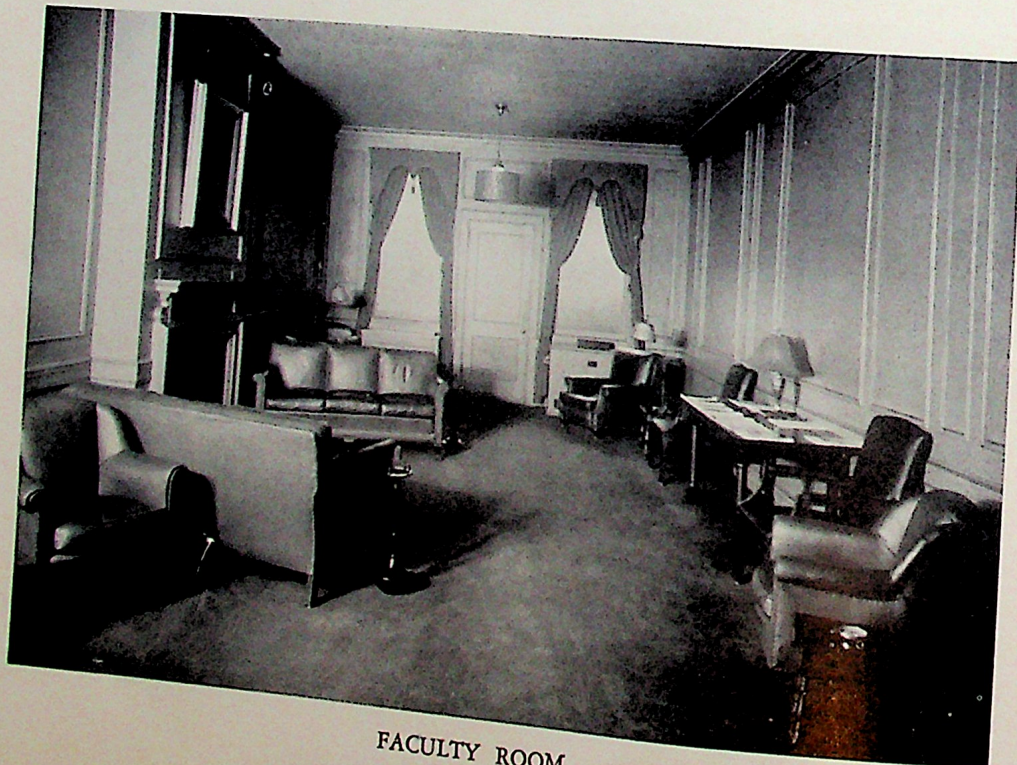
In the Fall of 1930, it was found that a modest fund was available for improvement purposes and immediately a plan was effected which would give the Cooper Union student reference library facilities of the first order.

The main feature of the plan was to create a spacious room within the Library itself, exclusively for Cooper Union students, and to provide therein open access to bookshelves with a librarian in attendance. Above all, the room was to possess a cheerful atmosphere, from both its appearance and equipment. Such a room now nears completion and will be opened for use before the close of the term. On the bookshelves will be found a full complement of technical





LIBRARY AND READING ROOM



FACULTY ROOM



works of each branch of the engineering profession, transactions of the major engineering societies, and the various index volumes to periodical literature. In addition there will be also found such bibliographic reference works as form the working tools of the librarian, all of which will be available to the student.

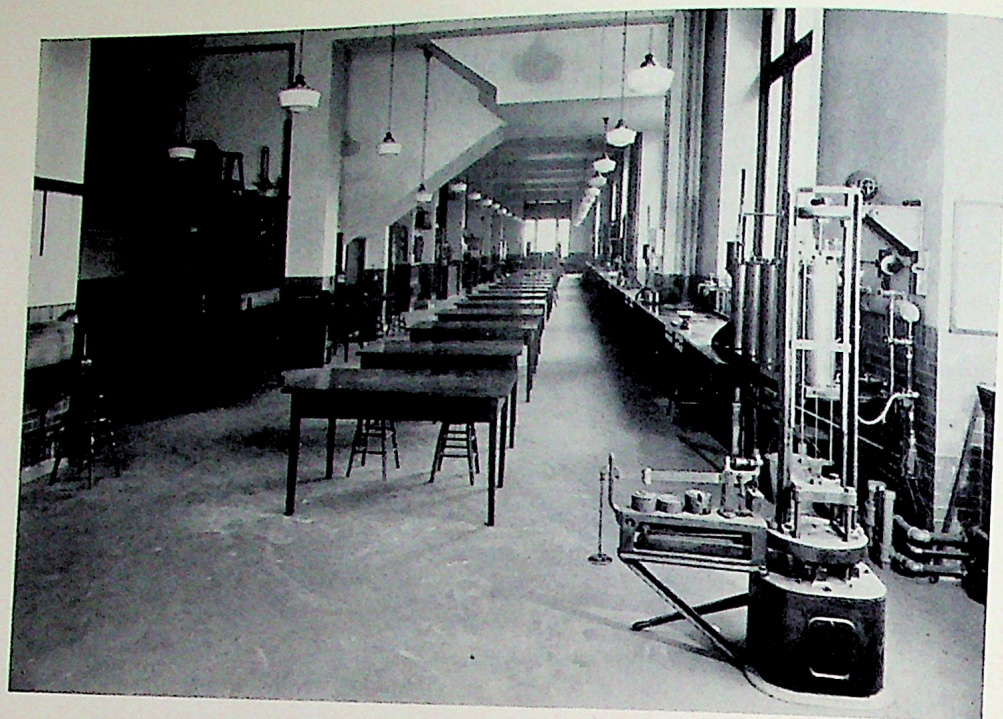
The subject of Engineering is so interesting and absorbing that it forms its own diversion. This fact often prevents a student from becoming interested in the cultural fields of life and, as a consequence, he becomes narrow in outlook and tends to remain so. To help in preventing this, an additional smaller room is provided for the sole purpose of taking the student outside his profession and introducing him to the great works of literature. This room, which may appropriately be called the Contact Room, is being furnished in such a manner as to be both attractive and extremely comfortable. Its atmosphere will draw the student to it and an occasional half hour or so of his spare time spent there in becoming acquainted with the best minds of all times will bear him profitable returns. Such acquaintance is often furthered by discussion with an interested neighbor and, consequently, in the Contact Room quiet conversation will be permitted, provided that this does not interfere with the work of the students in the adjacent Reference-Study Room.

As a nucleus library for the Contact Room, there have been placed on the shelves many of the volumes mentioned in that very fine guide known as "A College Student's Reading" published a few years ago by the Faculty of Trinity College, Hartford, in a development very similar to our own. These have been supplemented by many recent publications, chosen in such a way as to balance the collection and bring it entirely up to date.

Many students will remember the helpful and courteous attention received from the former librarian, the late Mr. Frank Abbot Curtis. They will feel especially happy in the enjoyment of these new facilities in knowing that their new Student Library and Contact Room have been dedicated as a fitting memorial to the long and faithful service of Mr. Curtis.

These are some of the facts that should be known by those who have abided within the walls of this great institution and perhaps as the years go by, there will be many other features recorded which will bring a thrill of joy when we think that our own lives have been connected with THE COOPER UNION.

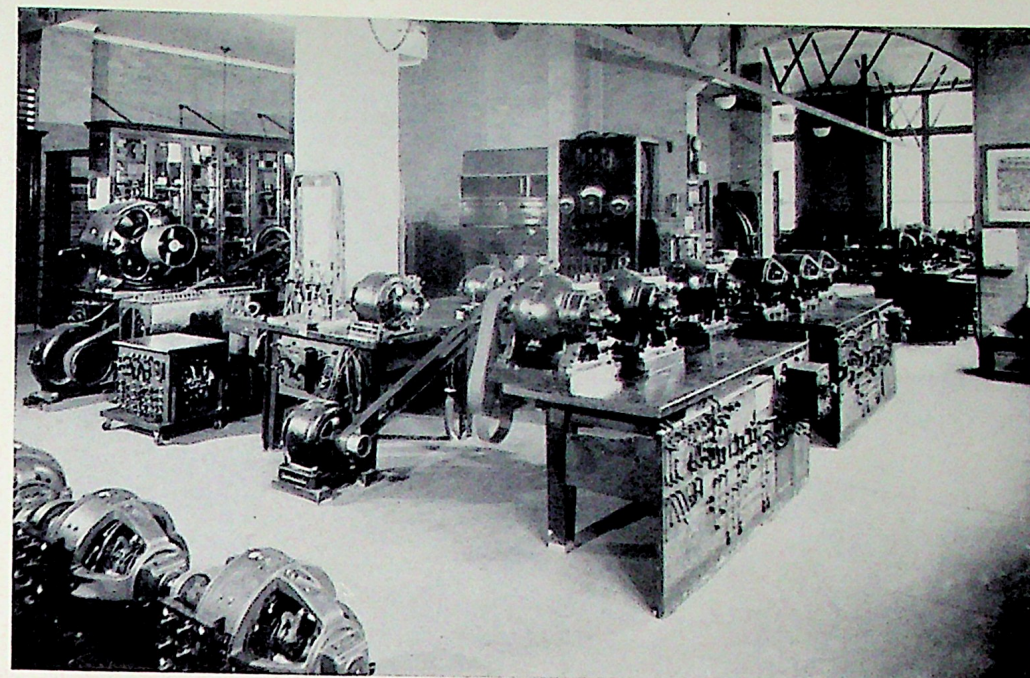




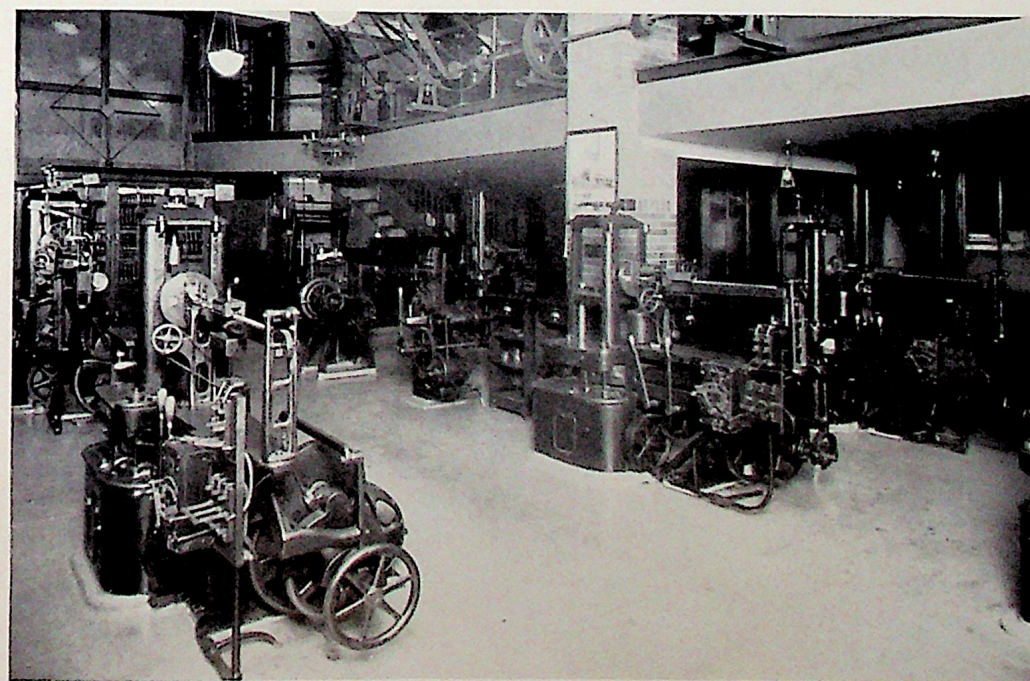
PHYSICS LABORATORY



CHEMISTRY LABORATORY



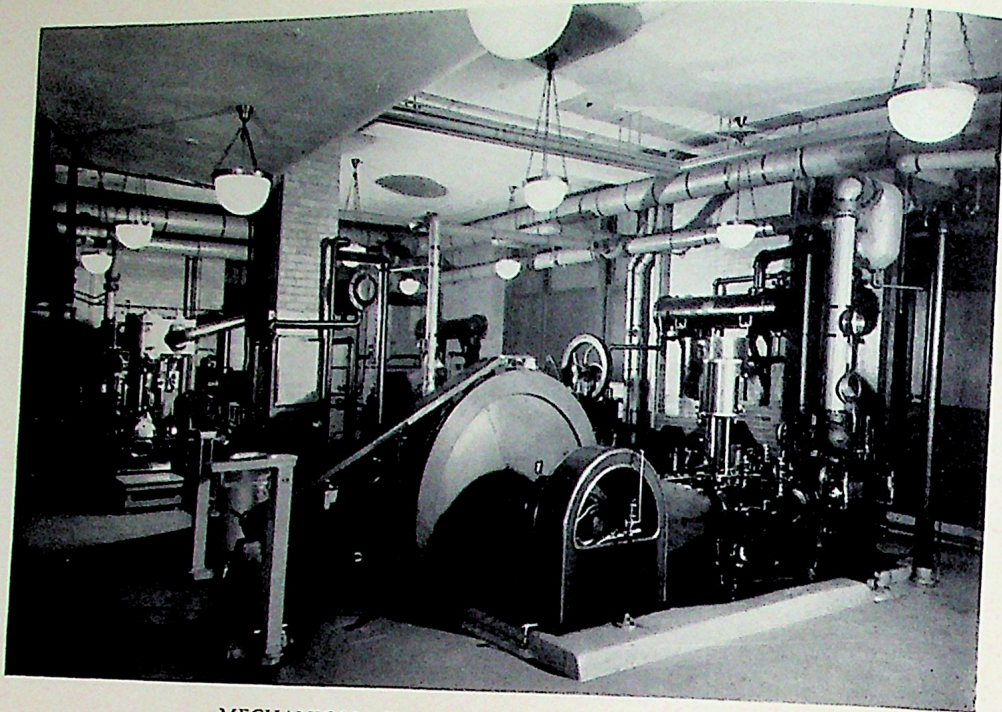
A. C. AND D. C. MACHINE LABORATORIES



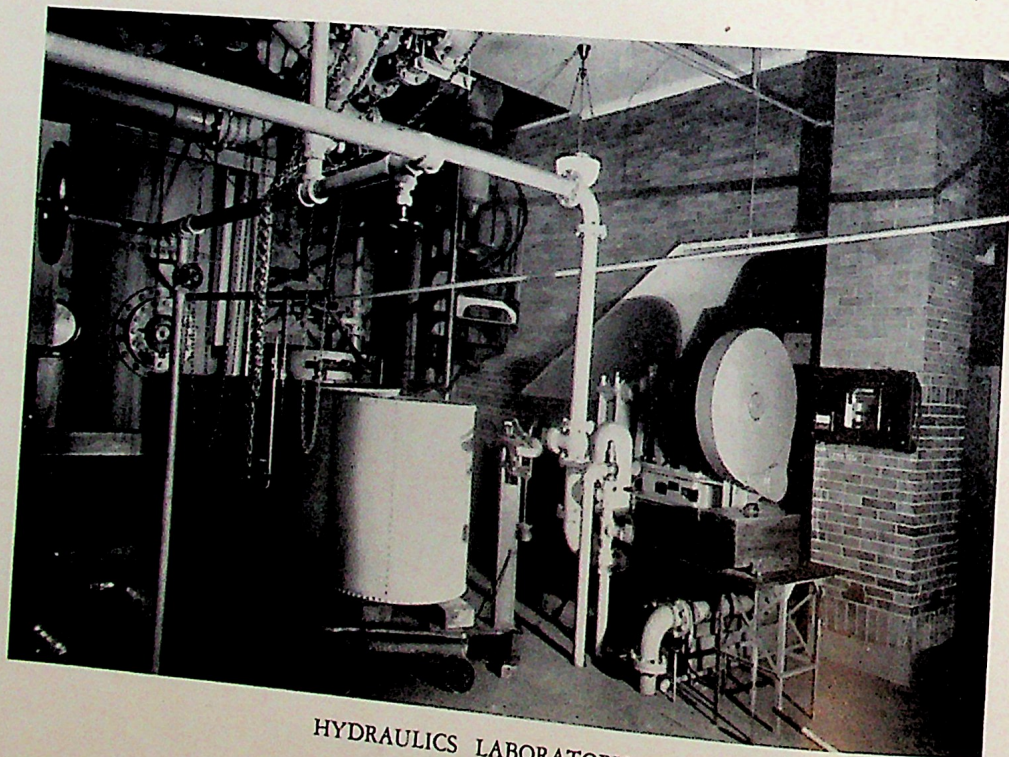
MATERIALS TESTING LABORATORY



1931 CABLE



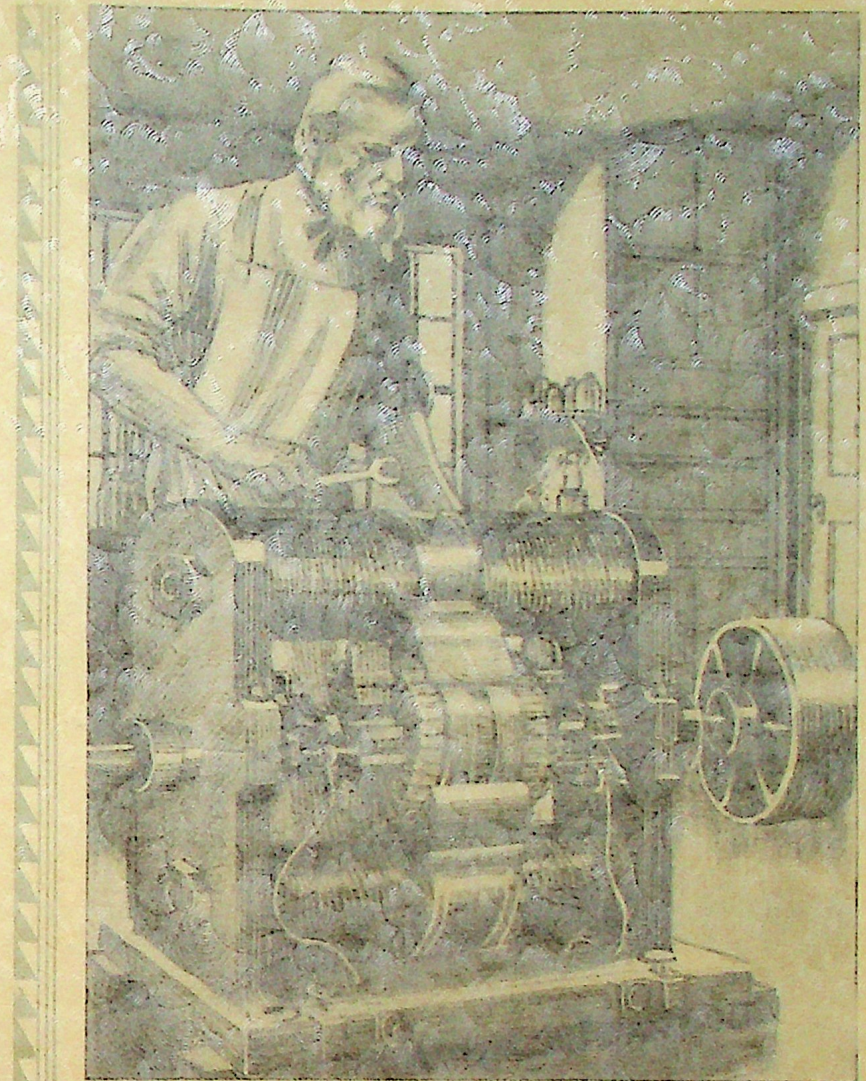
MECHANICAL ENGINEERING LABORATORY



HYDRAULICS LABORATORY



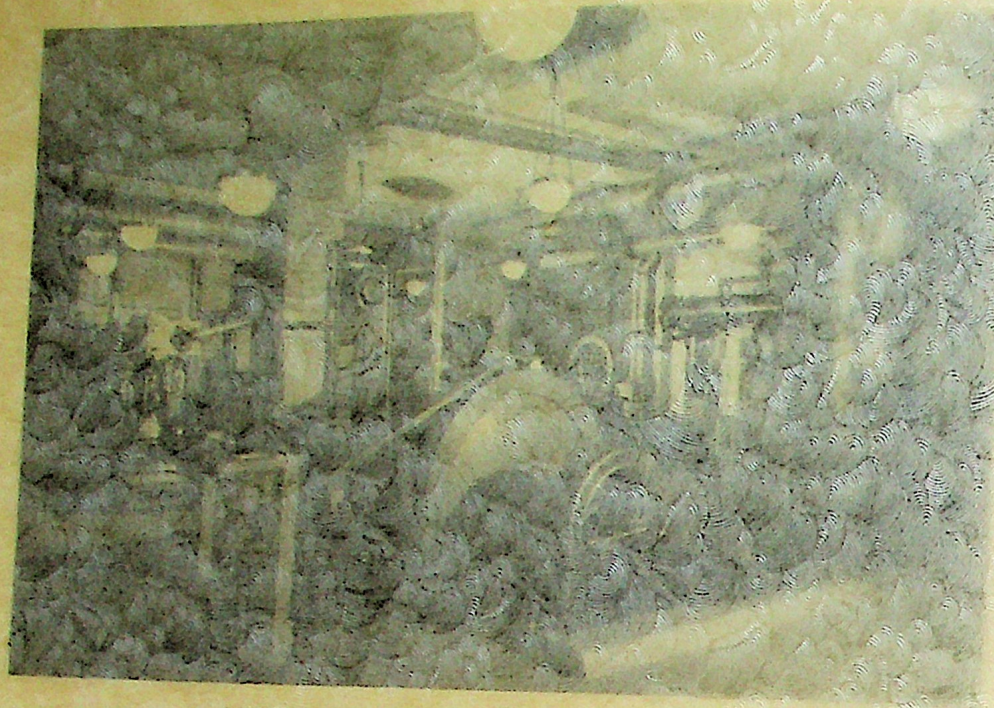
Twenty-two



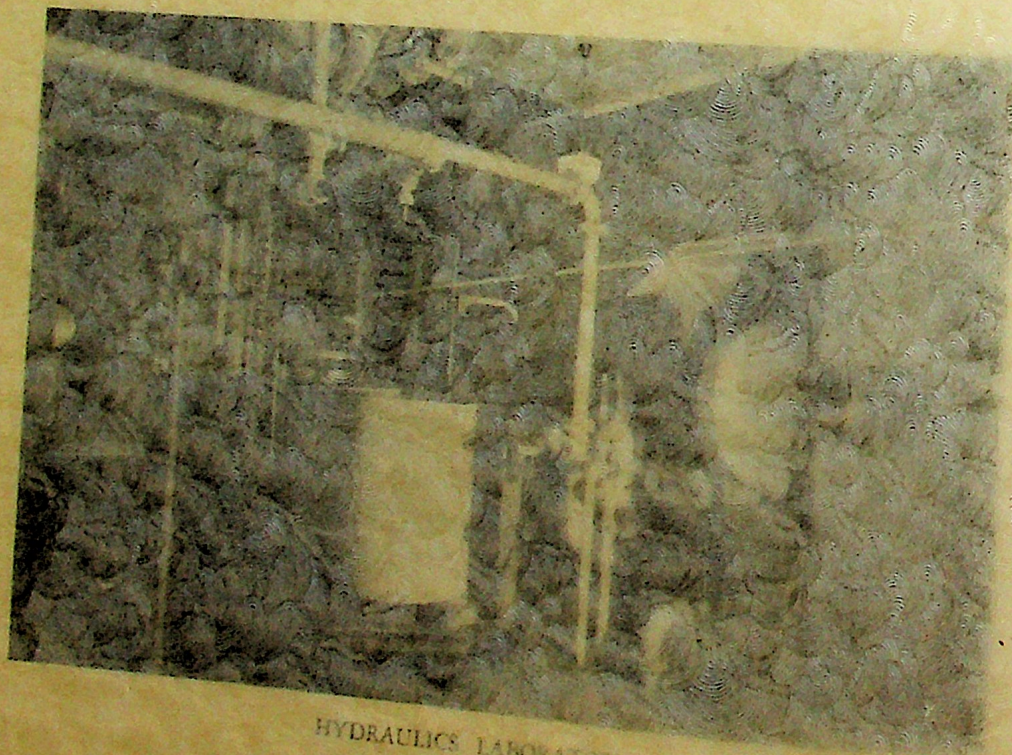
WILLIAM ARNOLD ANTHONY

Professor of Physics 1893 to 1908. Revolutionized the teaching of physics in colleges and introduced a first electrical engineering course in this country.

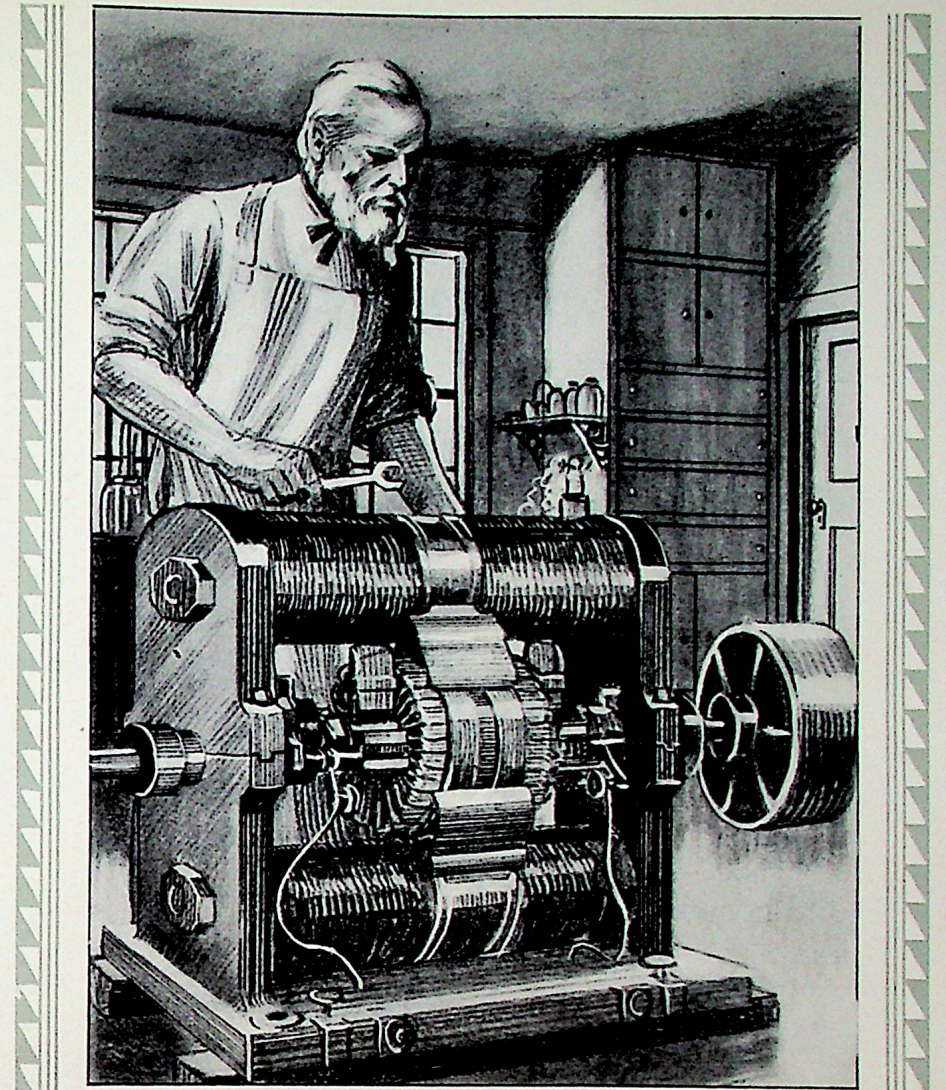
The FACULTY



MECHANICAL ENGINEERING LABORATORY



HYDRAULICS LABORATORY



WILLIAM ARNOLD ANTHONY

Professor of Physics 1893 to 1908. Revolutionized the teaching of physics in colleges and introduced a first electrical engineering course in this country.

The FACULTY

The Cooper Union
for the
Advancement of Science and Art

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FRANCIS M. HARTMANN
Dean



Francis M. Hartmann

*Dean of the Schools of Engineering
and Professor of Electrical Engineering*

B.S. (Five Year Course in General Science), Cooper Union, 1895; graduate (Course in Chemistry), Cooper Union, 1898; post-graduate work in physics under Professor Anthony, 1898-99; E. E., Cooper Union, 1903; post graduate work in mathematics, New York University, 1902-03.

Fellow: American Institute of Electrical Engineers; American Association for the Advancement of Science. Member: American Society of Mechanical Engineers; American Physical Society; American Mathematical Society; Society for the Promotion of Engineering Education.

Author: Elementary Mechanics; Heat and Thermodynamics; Alternating Currents and Electrical Transmission; Contributions to Electrical Review; Biographical Sketch of George W. Plympton.

Appointed:

Instructor of Physics, Cooper Union Night School in 1899.

Instructor of Physics and Electrical Engineering in Day and Night Schools in 1901.

Assistant Professor of Physics and Electrical Engineering in 1905.

Professor of Physics and Electrical Engineering in 1906.

In charge of the combined departments of Electrical and Mechanical Engineering from 1907 to 1925.

Dean of the Schools of Engineering, October, 1921.

Professor Hartmann has taken a very active part in cooperating with the late Professors Anthony and Spice in developing the Day Technical Courses into distinctive four-year courses in Engineering. One of his most notable achievements was the taking charge at Cooper Union in 1900 of the then existent two-year course for electrical workers and developing it into the present Five-Year Course in Electrical Engineering. Professor Hartmann has from the time of his appointment on the faculty at Cooper Union, worked incessantly and successfully in conforming with the words of Peter Cooper; "the establishment and maintenance of a thorough polytechnical school, which school shall as far as possible and as soon as possible, be made equal to the best technological schools now established or hereafter to be established".



Schools of Engineering

COMMITTEES OF THE FACULTY

Committee of Admissions

PROF. H. W. REDDICK PROF. H. C. ENDERS
 PROF. A. BALL PROF. C. C. BRIGHAM
 MR. WARREN G. FINDLEY

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PROF. F. M. HARTMANN PROF. H. W. REDDICK
 PROF. F. E. FOSS PROF. A. B. NEWMAN

Committee on Student Standing

PROF. A. BALL PROF. N. L. TOWLE
 PROF. W. J. PICKETT MR. W. G. FINDLEY
 MR. H. MERRITT

Committee on Scholarships

PROF. W. J. PICKETT PROF. K. HAUPTMAN
 PROF. N. L. TOWLE MR. H. B. HOPE

Committee on Student Relations

PROF. G. F. BATEMAN PROF. R. C. BRUMFIELD
 PROF. C. ROSSMASSLER

Committee on Schools

PROF. W. J. PICKETT PROF. C. ROSSMASSLER
 PROF. N. L. TOWLE



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Librarians

FRIEDA KATZKI EDWARD S. MCCLENAHAN

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 JULIUS JOSEPH

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FREDERIC EHRLICH G. HERBERT KROLL

Pencil Technique

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GAETANA CECERE

Life Class

C. CIAMPAGLIA

Sculpture

GEORGE T. BREWSTER

Antique Class (Advanced)

WILLIAM B. STARKWEATHER

Furniture Design

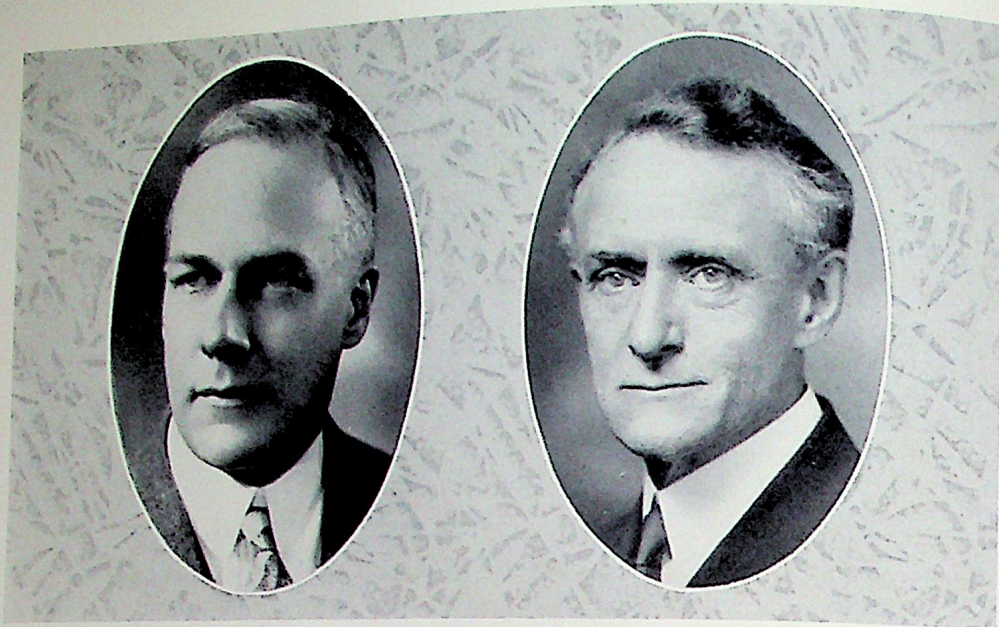
HENRY GOLDSMITH

Fashion Design

ETHEL TRAPHAGEN

CONSTANCE REED





Department of Chemical Engineering

Professor

ALBERT B. NEWMAN, A. B., B. Ch. E., M. S., Ph. D.

Sigma Chi, Phi Lambda Upsilon, Sigma Xi, Iota Alpha; A. B., 1910; B. Ch. E., 1911; M. S., 1926; Ph. D., 1928; University of Michigan; member of American Institute of Chemical Engineers, American Chemical Society, University of Michigan Club of New York, fellow of American Association for the Advancement of Science.

Assistant Professor

HENRY C. ENDERS, A. M., Ch. E.

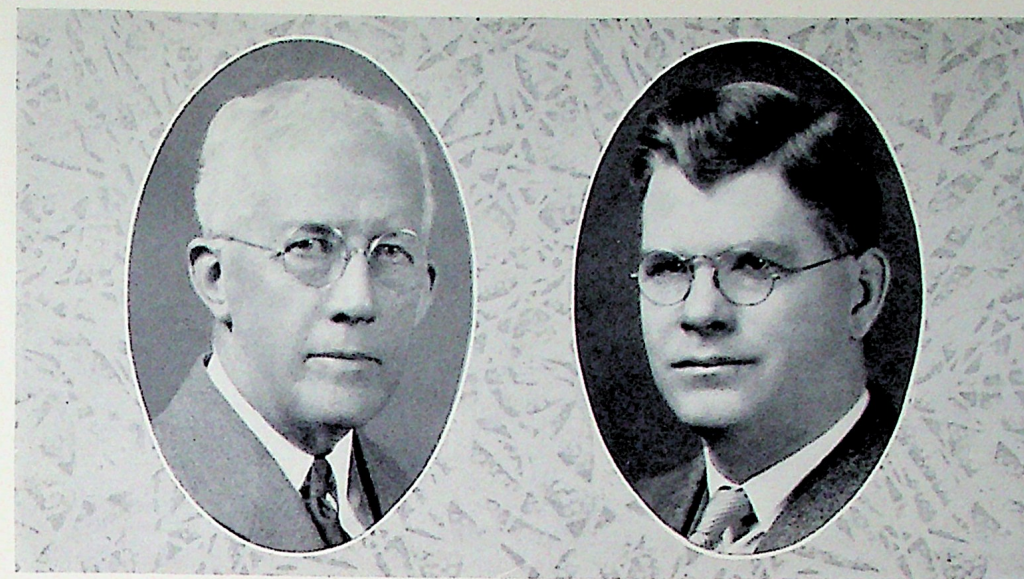
Omega Delta Phi; B. C. Cooper Union, 1906; A. M., Columbia University, 1920; Ch. E. Cooper Union, 1922; Past President of Cooper Union Chemical Society, Past President of Cooper Union Alumni Association, member of American Chemical Society; Vice-President of N. Y. State Society of Professional Engineers; Member of Committee of Law and Ethics, Member of Committee of Nominations, N. Y. Chapter of State Society of Professional Engineers; fellow American Association for the Advancement of Science; associate member American Geographical Society; American Institute of Chemical Engineers.

Instructors

CHRISTIAN WEAVER, B. C.
JAMES COULL, B. Sc., A. M.
HARVEY HUGG, B. S.
ALLAN L. TARR, S. B.
NICHOLAS FALLENBERG, Lab. Asst.

FRANCIS P. CAREY, B. S.
HENRY B. HOPE, Ch. E.
RAYMOND SZYMANOWITZ, B. S.
EDWARD CANNON, Chem. Asst.
HENRY J. GOLLE, Lab. Asst.

Thirty



Department of Civil Engineering

Professor

FREDERICK E. FOSS, A. M., Sc. D.

Phi Beta Kappa, Phi Kappa Phi; A. B., Bates College, 1883; A. M., Bates College, 1886; B. S., Massachusetts Institute of Technology 1886; Sc. D., Bates College, 1908; member of American Society of Civil Engineers, American Railway Engineering Association, American Society for Testing Materials, Society for the Promotion of Engineering Education.

Assistant Professor

RAY C. BRUMFIELD, B. S.

Tau Beta Pi; B. S., Purdue University, 1912; member of American Society for Testing Materials, American Society for Steel Treating, Society for the Promotion of Engineering Education, Committee on Hardness Testing, A. S. S. T., Chairman Standardization Committee, A. D. T. A.

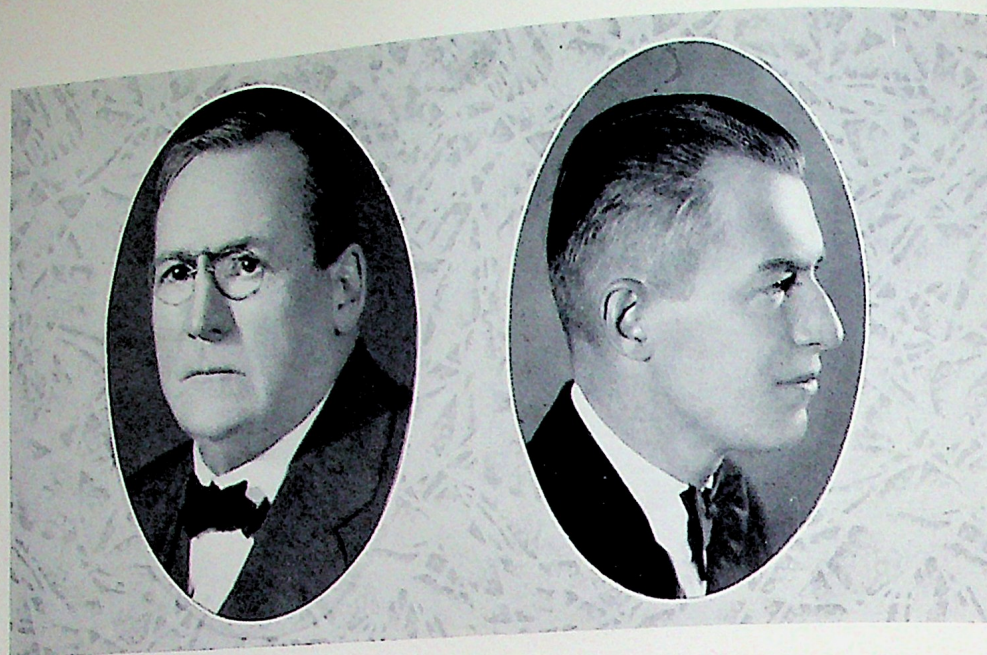
Instructors

GILBERT MORRISON, B. S., C. E.
L. PEREZ, B. S.
C. L. ROTH, JR., B. S.

J. P. WILLIAMS, B. S., M. S., C. E.
WILLIAM E. BROWN, B. S.
M. H. VAN BUREN, B. S., C. E.

Thirty-one





Department of Electrical Engineering

Professor

FRANCIS M. HARTMANN, B. S., E. E.

B. S. (Scientific Course), Cooper Union, 1895; graduate (Chemistry) Cooper Union, 1898; E. E., Cooper Union, 1903.

Assistant Professor

NORMAN L. TOWLE, B. S., E. E.

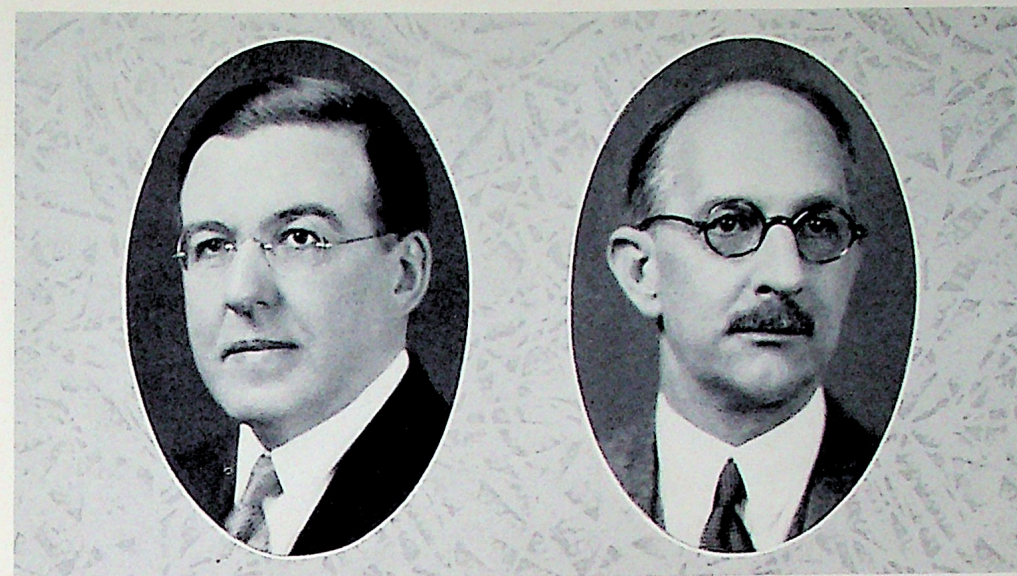
Tau Beta Pi; Sigma Xi; Sigma Alpha Epsilon; B. S. in Electrical Engineering, 1917; E. E., 1920, Worcester Polytechnic Institute; Graduate Study and Research, Westinghouse Electric and Manufacturing Co., 1917-1918; Engineer, Westinghouse Electric and Manufacturing Co., 1918-1919; Iowa State College, 1919-1920; in charge of Electrical Laboratories, Cooper Union; member: American Institute of Electrical Engineers, Society for the Promotion of Engineering Education.

Instructors

A. J. B. FAIRBURN, B. S., A. M.
F. HOWARD TALLMAN, B. S.
ALBERT GOERTZ, B. S., C. E.
HENRY SCHERIL, B. S., E. E.
H. C. KOENIG, B. S., E. E.

B. ALGER, B. S.
C. G. KRUEGER, B. S.
CHARLES ZELLER
NILS G. WILLEN, B. S.
GEORGE QUINN, E. E.

Thirty-two



Department of Mechanical Engineering

Professor

GEORGE F. BATEMAN, B. E., M. E.

B. S., Cooper Union Day School of Technical Science, 1907; Fellow: American Association for the Advancement of Science; Member: American Society of Mechanical Engineers, Society for the Promotion of Engineering Education, The Newcomen Society, Library Board of the Engineering Societies Library, and of its Executive Committee, American Engineering Standards Committee (Sectional Committee on Symbols and Abbreviations). Secretary, Alumni Federation of Cooper Union; Manager, Cooper Union Alumni Employment Bureau.

Instructors

H. F. ROEMMELE, B. S.
E. A. SALMA, B. S.
W. O. ENTENMANN, B. S., M. E.
C. F. PIHLBLAD, Mechanician

O. G. GERDIN, B. S.
H. C. OTTEN, B. S., E. E.
W. T. PETERSON, B. S.
C. A. ADAMS, Lab. Asst.

Department of Machine Design

Professor

CARL ROSSMASSLER, B. S.

B. S. (Scientific Course), Cooper Union, 1895; graduate (Chemistry) Society of Mechanical Engineers, Society of Automotive Engineers, Engineers Club of Philadelphia.

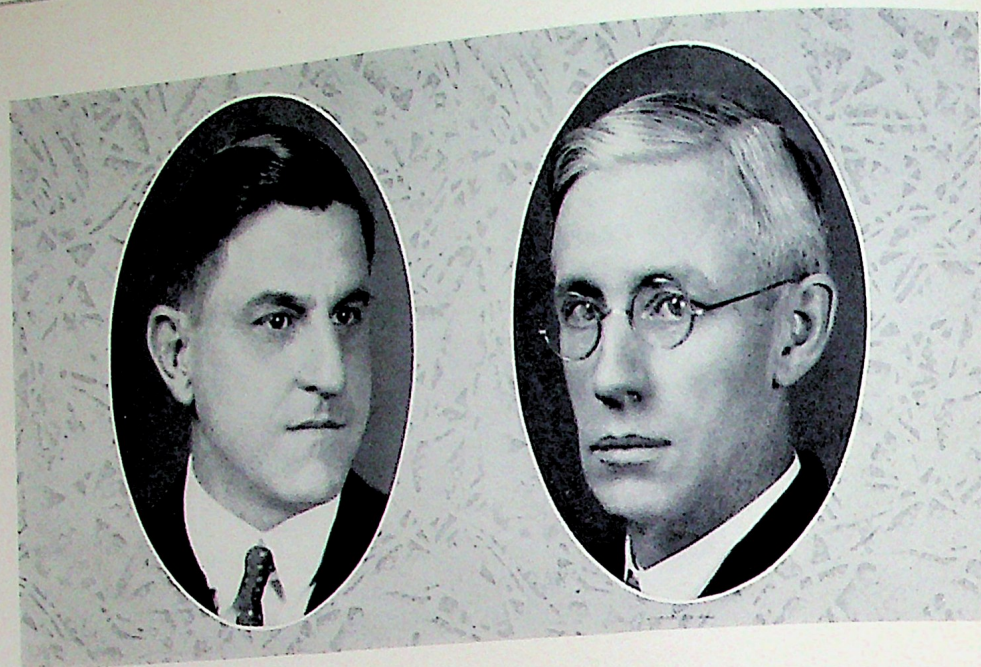
Instructors

OTTO G. PULLER, B. S.
C. H. YOUNG

JOHN W. LANGGUTH, B. S.
M. ST. JOHN BERNNER, B. S.

Thirty-three





Department of Mathematics

Professor

H. W. REDDICK, A. M., Ph. D.

Phi Kappa Psi, Sigma Xi; A. B., Indiana University, 1904; A. M., University of Illinois, 1906; Ph. D., Columbia University, 1910; Professor of Mathematics in 1916; Member: American Mathematical Society, Mathematical Association of America.

Assistant Professor

WILLIAM J. PICKETT, B. S.

B. S., Teachers College, Columbia University, 1909; Assistant Professor of Mathematics, Cooper Union, 1924. Member of Mathematical Association of America.

Instructors

PATRICK QUILTY, B. S., C. E.
CHARLES H. LEHMANN, B. S.
DONALD C. MACLEAN, A. B.
JOHN R. GARDNER, B. S., A. M.
E. G. TAPLAN, B. S., A. M.
S. B. SHERIDAN, B. S.

JOSEPH J. TANZOLA, A. B., A. M.
EDWARD J. LARKIN, B. S.
BENJAMINE LEVINE, A. M.
A. H. BEILER, B. S.
FRANK J. McMACKIN, Ph. D.



Department of Physics

Professor

ALBERT BALL, A. B.

Sigma Xi; A. B., Cornell University, 1901; Member: American Association for the Advancement of Science; Society for the Promotion of Engineering Education, American Physical Society; Associate Member, American Institute of Electrical Engineers. In charge of Department of and Professor of Physics in 1912.

Assistant Professor

KARL HAUPTMAN, B. S.

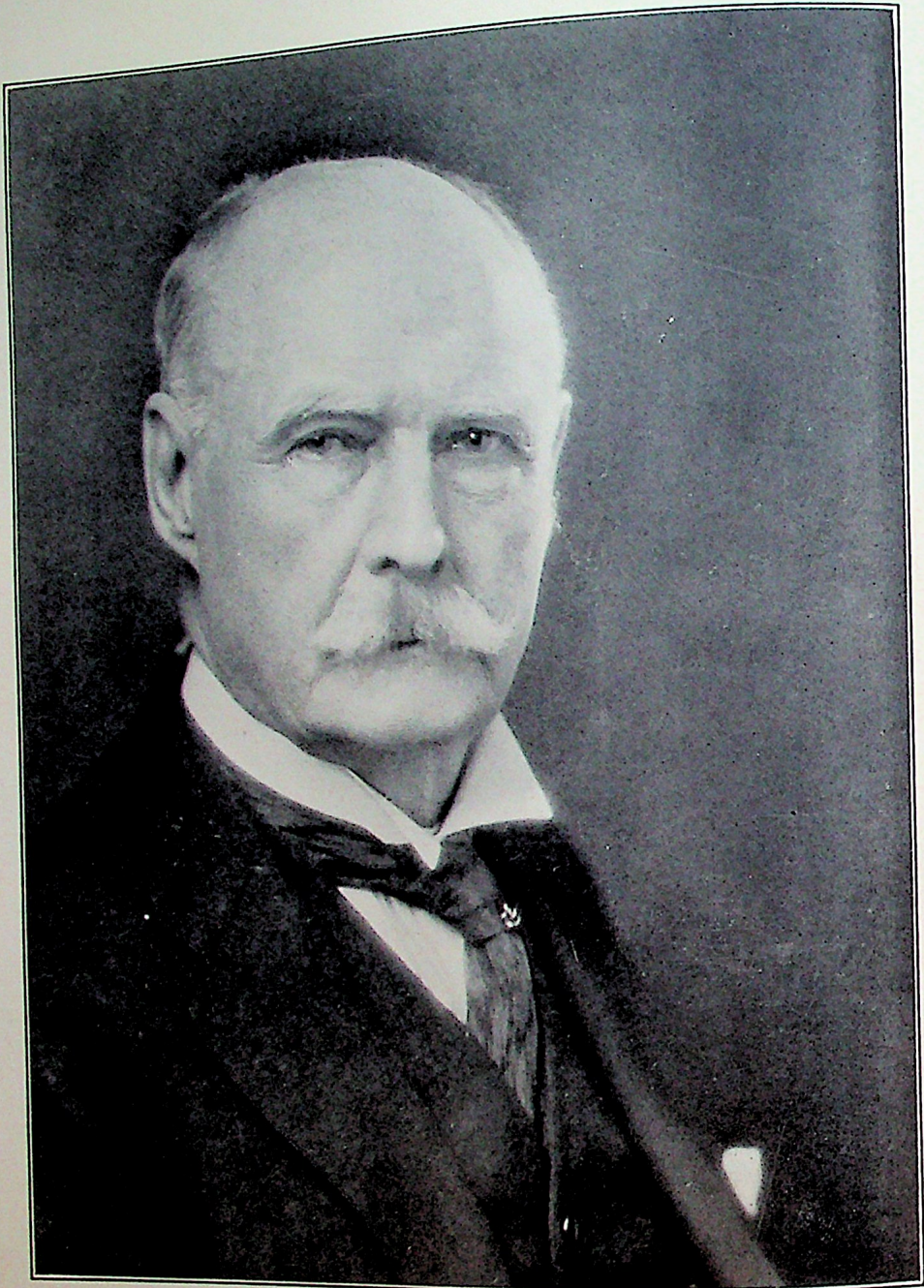
1903—Graduated Cooper Union Day School of Technical Science with the first graduating class of the Day School; B. S., Cooper Union Night School of General Science, 1903; Engineering Department of New York Telephone Co., 1903-1904; Instructor Physics and Electrical Measurements, Cooper Union Night School, 1904; Instructor of Physics, Cooper Union Day School of Technical Science, 1905; Assistant Professor of Physics, Cooper Union, 1924.

Instructors

HAROLD MERRIT, B. S.
J. CHARLES RIEDEL, B. S., C. E.
WILLIAM H. SPAHN, B. S., E. E.
WILLIAM E. BOSSERT, B. C.
HERMAN STEMPEL, B. S.
CARLYH MILLER, B. S.

OLAF GERDIN, B. S.
HENRY OTTEN, B. S.
R. A. FARALLA, B. S.
R. L. PEEK, A. B.
R. W. BURNS, A. B., B. S.
HUGH HALSEY, A. B.





FREDERICK DIELMAN



Frederick Dielman, N. A.

Art Director

NIGHT ART SCHOOL

Phi Beta Kappa; graduate of Calvert College, Maryland; studied in the Royal Academy and Polytechnic Institute, Munich; served for six years in U. S. Engineers' office; head of Department of Art, College of City of New York, '02-'17; president National Academy of Design, '77-'09, National Academician, '83; member Art Commission of New York City, '01-'04; Honorary Fellow for Life, Metropolitan Museum of Art; Honorary Member Institute of Architects, '09; member: National Institute of Arts and Letters.





Faculty

FREDERICK DIELMAN, N. A.
Art Director and Chairman

EDWARD A. MILLER, B.S., C.E.
Architecture

B. S. Cooper Union, 1874; C. E. Cooper Union 1914; Member American Institute of Park Executives, Municipal Engineers of the City of New York, General Science Alumni, Alumni Federation, Pleiades, Verdi Club.

FREDERIC EHRLICH
Commercial Design

Cooper Union, studied under C. Reinhardt, Walter Clark; Art Students League, Naval Academy of Design, Roscoe School of Arts.

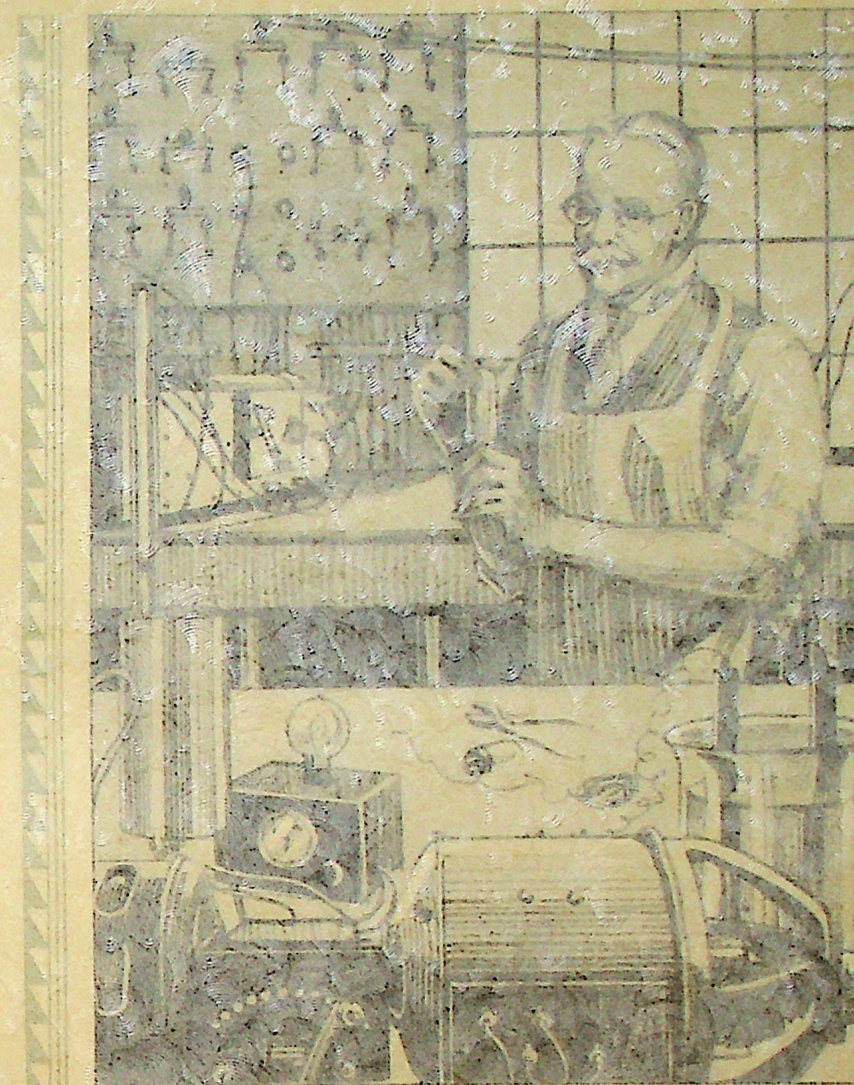
HENRY A. GOLDSMITH
Furniture Design
Graduate of, Ohio Institute, Cincinnati Art Academy and Cooper Union, Extensive study in Europe.

GEORGE T. BREWSTER
Sculpture

Mass. State Normal Art School, Ecole Des Beaux Arts. Founder Modeling Class. Art Department at Cooper Union 1900. Sculptures include statue of "Indiania", "Hope", "Defense of Flag", "Club Seal" at University Club, N. Y. C., "Fountain of Nature", and several others.

WILLIAM E. B. STARKWEATHER
Antique

Art Students League, N. Y., and of Colin, Courtois and Pinet at the Academie Colorossi, Paris; of Sorolla at Madrid, Study in Italy.



MICHAEL I. PUPIN,
a former student of Cooper Union; a noted author, mathematician and professor of Electro-Mechanics.

The CLASSES



Faculty

FREDERICK DIELMAN, N. A.
Art Director and Chairman

EDWARD A. MUELER, B.S., C.E.
Architect

B.S. Cooper Union, 1874; C. E. Cooper Union, 1876; Master American Institute of Park Engineers; Municipal Engineers of the City of New York; General Science Alumni; various Expositions; Polesden, Verdi Club.

FREDERIC EHRLICH
Commercial Design

Cooper Union, studied under C. Reinhardt; Walter Clark Art Students League; Naval Academy of Design; Boston School of Arts.

HENRY A. GOLDSMITH
Furniture Design

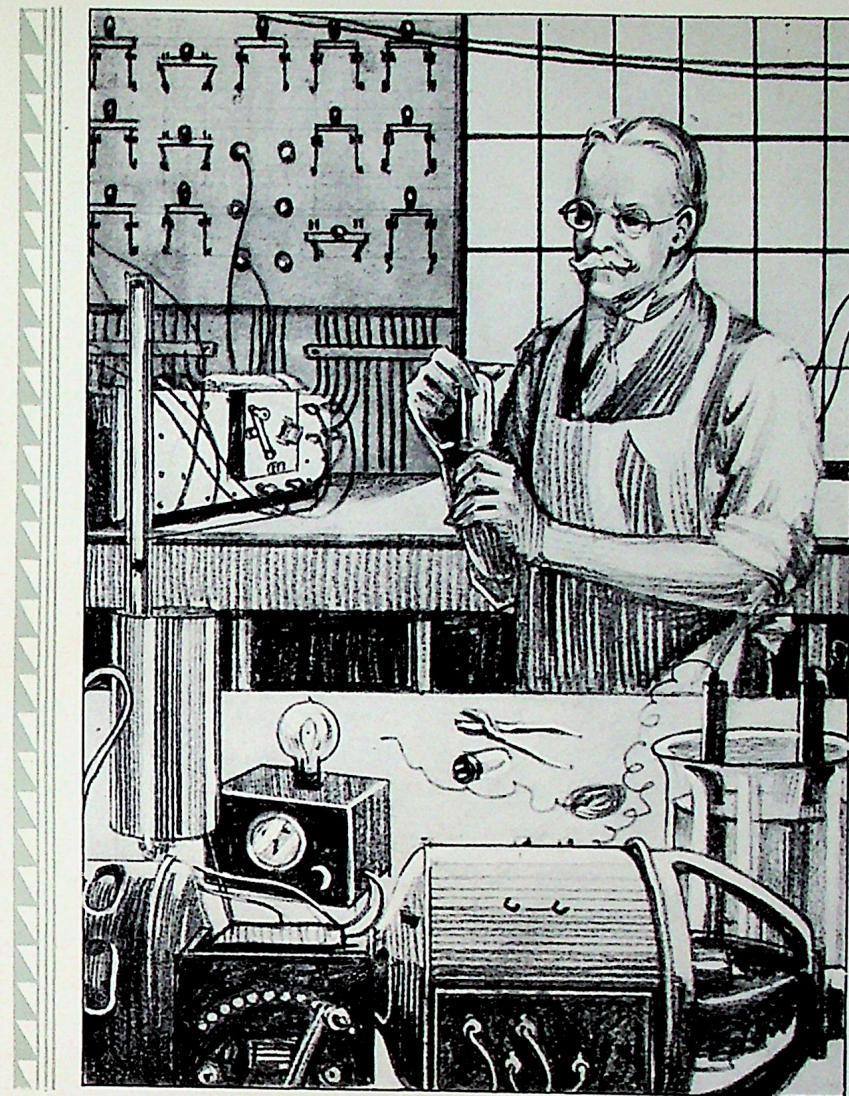
Graduate of Ohio Institute, Cincinnati Art Academy and Cooper Union; extensive study in Europe.

GEORGE F. LAURENCE
Sculptor

Mass. State Normal School; Boston Art School; Department of Sculpture, Cooper Union; includes study of sculpture; "Defense of Ploeg" by the Club, N. Y.; and several others.

WILLIAM F. H. STARKES
Engraver

Art Students League; Courtois and Price in the Paris; of Saville in the



MICHAEL I. PUPIN,
a former student of Cooper Union; a noted author, mathematician and professor of Electro-Mechanics.

The CLASSES

1931 CABLE



Chemical Engineering



President
RAYMOND J. KUNZ

Vice-President
LEON KAPELSON

Secretary
JAMES MANNING

Treasurer
SALVADOR SEGUI

QUITE often members of the class have been asked how they managed to withstand the grind for five long years. Those who found it to be a grind retired long ago but to the survivors it was far from a grind. Each succeeding year brought closer friendships and increased interest in our studies.

Poor representation in school activities during the first year, was due to strangeness among the students but all this distance was annihilated by the class affair at the close of the year. Chased out of the hotel at which a delicious supper was served, the party continued, at two A. M. up Broadway in full swing in search of a beer garden, but the scarcity of said institutions and the repeated cold showers contributed by rudely awakened sleepers, dampened the spirits of the troubadours and the party broke up temporarily.

The third and fourth years were highly successful both Scholastically and Socially and the class did more than its share in school activities. The Junior Prom, THE CABLE, Pioneer and the Athletic Associations were supported by the whole class.

The class organization functioned as a unit during the senior year and a great deal of work was accomplished. Plans were made to have re-unions in the future so that the party started in our freshman year may continue until there remains but two, in order to recount past enjoyments and to help each other in the future.

THE HISTORIAN.

DAVID ATLAS, B. S.
"Dave"
Chemical Engineering
A. I. Ch. E.



GUSTAV BITTRICH, B. S.
"Gus"
Chemical Engineering
A. I. Ch. E.; C. U. Chem. Soc.



NATHAN BULOS, B. S.
"Chubby"
Chemical Engineering
Boys' High School



A. I. Ch. E.; Math Club, '28, '29; Junior Prom Sec'y, '30; Vice-Chairman Senior Hop, '31; Tennis, '28; Football, '28, '29, '30; Gold Football, '30.

FRANKLIN M. CORNELL, B. S.
"Professor"
Chemical Engineering
A. I. Ch. E.; C. U. Chem. Soc.

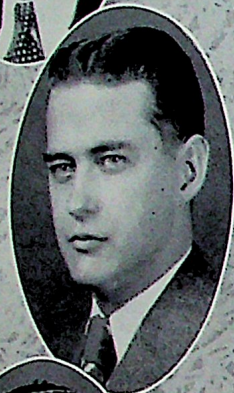




ELWOOD CRITCHLEY, B. S.
"Critch"

Chemical Engineering

A. I. Ch. E.



WILLIAM T. EGAN, B. S.
"Bill"

Chemical Engineering

A. I. Ch. E.; C. U. Chem. Soc.; Class Sec'y, '26.



IRWIN FINKELSTEIN, B. S.
"Irwin"

A M Σ

Chemical Engineering

Stuyvesant High School

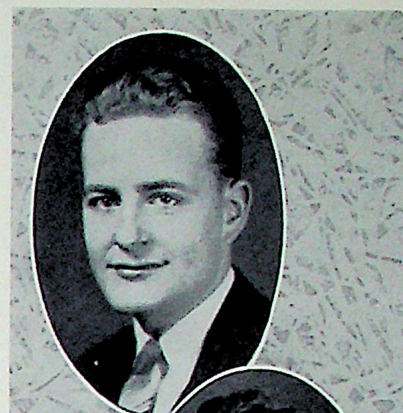
A. I. Ch. E.; Vice-Pres., '31; Math Club, '28, '29;
Rifle Club, '29.



LEON KAPELSOHN, B. S.
"Kappy"

Chemical Engineering

A. I. Ch. E.; Math Club, '28; Class Treas., '26;
Class Vice-Pres., '31.



RAYMOND J. F. KUNZ, B. S.
"Ray"

Ω Δ Φ

Chemical Engineering

A. I. Ch. E., Sec'y, '30; Junior Prom Comm., '30;
Annual Dance Comm., '31; Pres., C. U. N. S. C.,
'31; Gold "C" Award, '30; Class Pres., '27, '30, '31;
Class Vice-Pres., '29; Class Sec'y, '26; Treas., New-
man Club, '27; Vice-Chairman Pi Sigma, '30; C. U.
Chem. Soc.; Pioneer Ass't Business Mgr., '27; Pi-
oneer Business Mgr., '30.



JAMES J. MANNING, B. S.
"Jim"

Ω Δ Φ

Chemical Engineering

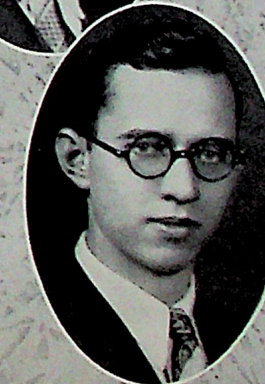
A. I. Ch. E.; Adv. Mgr., '30 Cable; Ex Post
Facto, '31; C. U. Chem. Soc.; Honor Award, '30;
Pioneer Staff, '30; Class Sec'y, '30, '31; Press Club,
'30; Newman Club, '30, '31; Inter-Class Basketball
Mgr., '27; Pi Sigma.



MORRIS MARGOLIS, B. S.
"Moish"

Chemical Engineering

A. I. Ch. E.; C. U. Chem. Soc.; Chairman Key
Comm., '31; Football, '27.

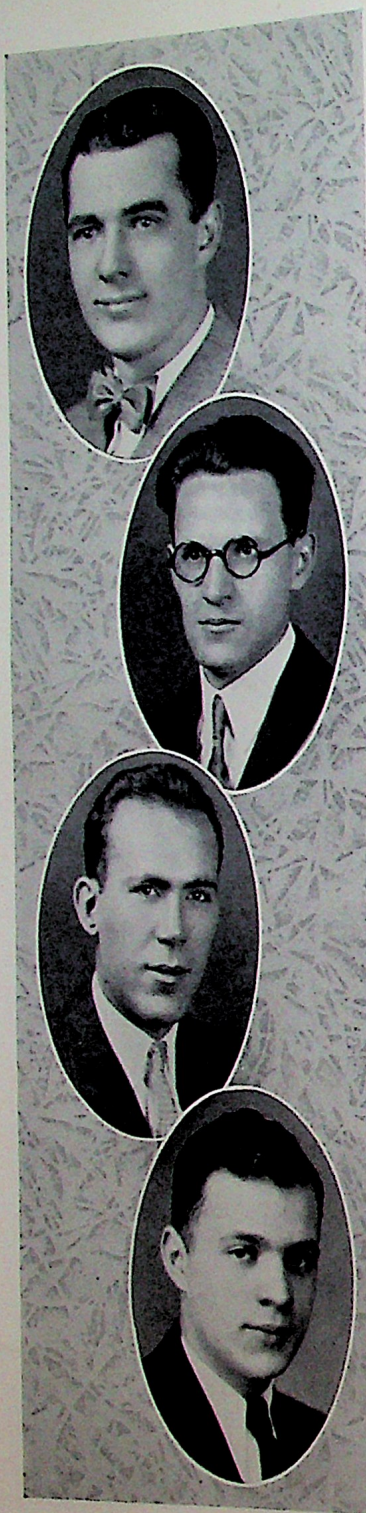


S. MEHNERT, B. S.
"Sam"

Chemical Engineering

A. I. Ch. E.





FRED J. ROEBEN, B. S.
"Fred"

Chemical Engineering
A. I. Ch. E.; A. C. S.

OTTO J. SCHWARZWALDER, B. S.
"Student Prince"

Chemical Engineering
German State High School
A. I. Ch. E.; C. U. Chem. Soc.

SALVADOR SEGUI, B. S.
"Sal"

Chemical Engineering
Commercial High School
A. I. Ch. E.; C. U. Chem. Soc.; Class Treas., '30, '31.

LOUIS SHERMAN, B. S.
"Lou"

Chemical Engineering
A. I. Ch. E.; C. U. Chem. Soc.; Cable Board, '30;
Ex Post Facto, '31; Senior Hop Comm., '31; Pioneer
Staff, '30; Class Vice-Pres., '30; Baseball, '28; Class
Basketball, '26, '27.



Cooper Union Chemical Society

President
C. WEAVER

Vice-President
E. H. SCHMIDT

Treasurer
W. B. IRVINE

Secretary
HARVEY HUGG

Executive Committee
T. McKENNA

R. SZYMANOWITZ
L. C. GREENHAUS

THE COOPER UNION CHEMICAL SOCIETY is one of the oldest and is generally recognized as one of the most active departmental organizations at Cooper Union. It was organized in 1894 by a small band of enthusiastic graduates for the purpose of perpetuating the "School Spirit," stimulating the love of their Alma Mater, and strengthening the bonds of good fellowship among its members.

To accomplish its aims, the Society has at frequently intervals arranged lectures and smokers, and members were always encouraged to exchange ideas on Chemistry and allied sciences.

During its long existence, the Society has passed through many experiences and judging from present indications, the coming years give promise of even greater usefulness. One of the outstanding events of the present year was a reunion held in the chemical laboratories which was attended by a large number of past graduates. To promote the interests of Cooper Union has always been the ultimate aim of the Cooper Union Chemical Society.



General Science



President
W. C. BERSIG

Vice-President
C. C. MERRILL

Secretary
R. P. MUHLSTEFF

Treasurer
R. LAUER

FIVE years ago, the members of the General Science Class of 1931 entered the portals of Cooper Union, joyous because of their success in having made the grade and become Freshmen, but awed by the solemnity and majesty of their new home.

During the first year the class was organized and gave its support to the various school functions.

As members of the second year we held our first social affair as a class. This was a theatre party and dinner and served as an opportunity for getting better acquainted with our classmates and instructors.

While Sophomores, we participated in the school athletic and social functions and held our first dance at the Cafe Boulevard.

Our Junior year was one of vast activities. Our members participated in publishing the *Pioneer* and the most successful CABLE up to our Junior year in the history of the school. Our Junior Prom, held at the Pan-Hellenic Hotel on March 15, 1930 will bring fond memories of a wonderful time.

At last we have reached our Senior Year. Our Senior Hop was a brilliant and successful climax to the social affairs which we held during our five-year stay at Cooper.

As Commencement Day approaches our feelings are those of mingled joy and regret. Joy that we have overcome the obstacles in our path and will receive a degree which marks another step in our progress, regret at severing some of the friendships which we have formed.

THE HISTORIAN.

Forty-eight



FRANCIS A. J. BANTON, B. S.
"Ajax"

Civil Engineering
Stuyvesant High School

C. C. N. Y.
A. S. C. E.; A. S. T. M.

WALTER BERSIG, B. S.
"Walt"

$\Phi \Sigma \Omega$

Civil Engineering
Brooklyn Technical High School

A. S. C. E.; A. S. T. M.; Class Sec'y, '30; Class Pres., '31; C. U. N. S. C., '31; Annual Dance, '31; Basketball, '30, '31; Track, '30.

GEORGE ALFRED CROWTHER, B. S.
"Al"

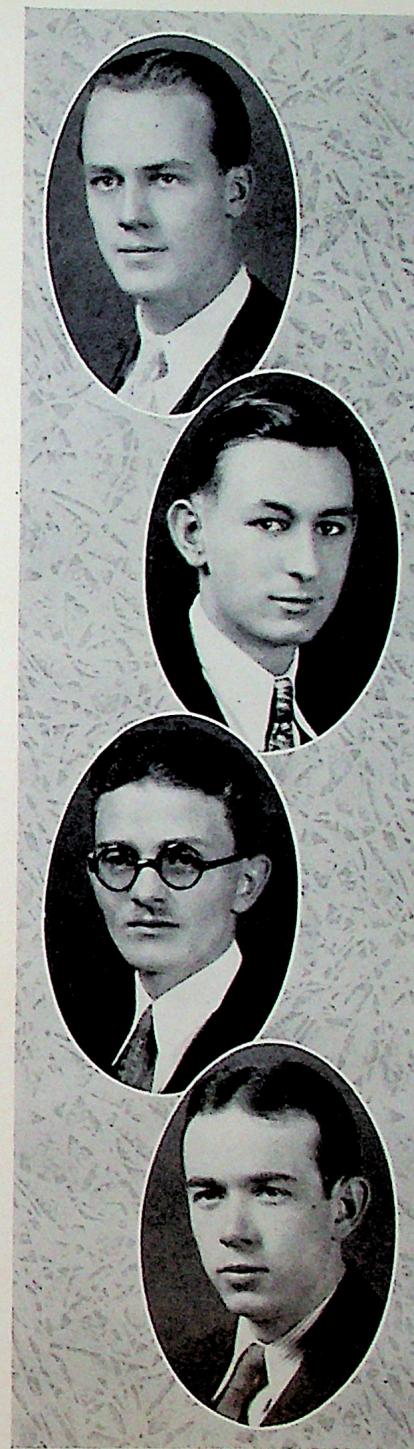
$\Omega \Delta \Phi$

Mechanical Engineering
Cornell University
Elmira Free Academy
Horseheads High School

A. S. M. E.; A. S. T. M.; Editor-in-Chief, '30 Cable; Chairman Ex Post Facto, '31; Pioneer Staff, '28; C. U. N. S. C., '30; Gold "C" Honor Award, '30.

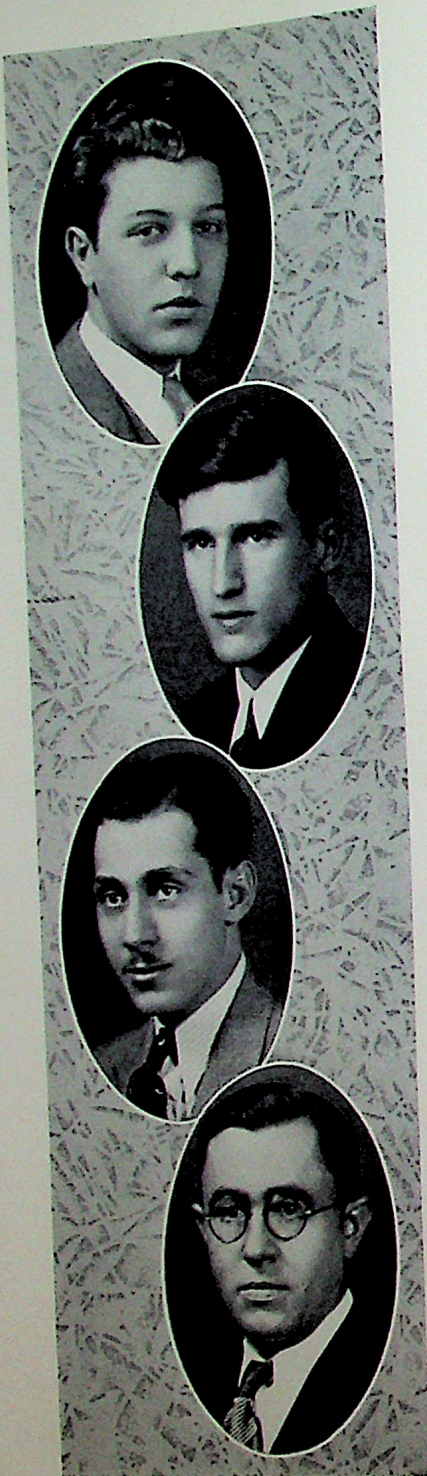
JOHN DERMODY, B. S.
"John"

Civil Engineering
Manhattan College



Forty-nine





ROBERT A. DIENES, B. S.
"Bob"

$\Omega \Delta \Phi$
Civil Engineering
Trinity High School
A. S. C. E.

ROCCO DI GIACOMO, B. S.
"Roc"

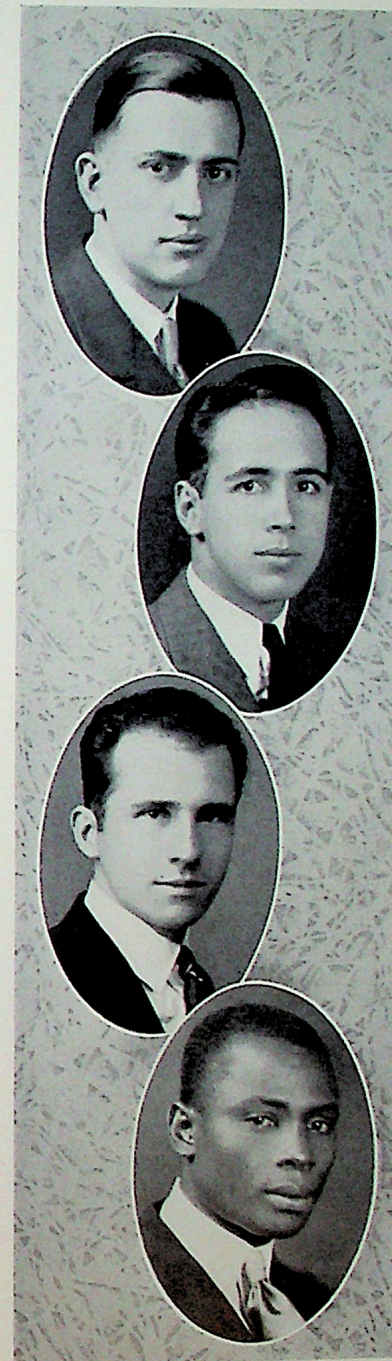
Civil Engineering
Paterson Eastside High School
A. S. C. E.

JOHN E. DIMATTEO, B. S.
"Johnny"

$\Omega \Delta \Phi$
Mechanical Engineering
Dickinson High School
A. S. M. E.; Staff Editor, '30 Cable; Ex Post Facto, '31; Pioneer, '27; Gold "C" Award, '30.

FRANK ECK, B. S.
"Frank"

Civil Engineering
A. S. C. E.



ROBERT F. ELLIOT, B. S.
"Bob"

$\Omega \Delta \Phi$
Mechanical Engineering
Dickinson High School
A. S. M. E.; C. U. N. S. C., '30; Circulation Mgr., '30 Cable; Ex Post Facto, '31; Key Comm., '31; Class Treas., '27; Class Vice-Pres., '29; Class Pres., '30.

HOWARD I. EMERY, B. S.
"Howie"

$\Omega \Delta \Phi$
Civil Engineering
Brooklyn Technical High School
A. S. C. E., Treas., '30, Vice-Pres., '31; Press Club, '30; Class Vice-Pres., '28; Class Pres., '29.

JOHN C. FLEMING, B. S.
"Chick"

$\Phi \Sigma \Omega$
Civil Engineering
A. S. C. E.; Class Vice-Pres., '25.

METHUEN GIBSON, B. S.
"Met"

Civil Engineering
Harlem Evening High School
A. S. C. E.



LOUIS GROSSMAN, B. S.
"Lou"
Civil Engineering
Harlem Evening High School
A. S. C. E.; A. S. T. M.

PHILIP M. HAMLIN, B. S.
"Phil"
 $\Omega \Delta \Phi$
Civil Engineering
Rutherford High School
A. S. C. E.; A. S. T. M.

SIDNEY HEIFETZ, B. S.
"Sid"
Mechanical Engineering
A. S. M. E.

FRANK HICKEY, B. S.
"Frank"
 $\Phi \Sigma \Omega$
Civil Engineering
Manual Training High School
A. S. C. E.

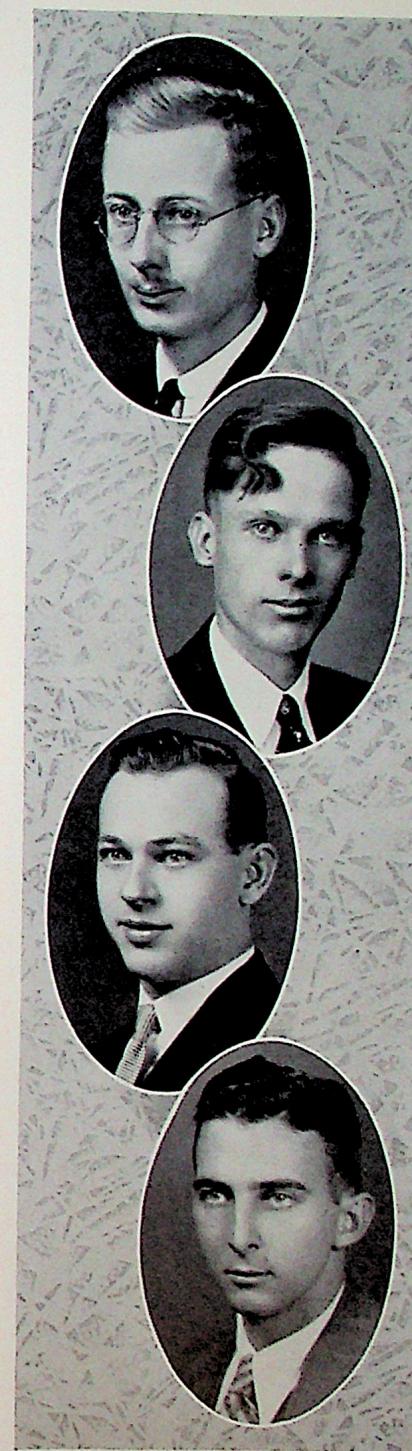


FRANK HUNDLEY, B. S.
"Frank"
 $\Phi \Sigma \Omega$
Mechanical Engineering
A. S. M. E.; Photo Editor, '29 Cable; Ex Post Facto, '30; Tennis Club.

HENRY JAEGER, B. S.
"Henry"
Civil Engineering
East Side High School, Newark
A. S. C. E.; Treas., '29

ADAM J. KEMMER, B. S.
"Kem"
Mechanical Engineering
Brooklyn Polytechnic Institute
A. S. M. E.; Junior Prom Comm., '30; Senior Hop Comm., '31; Class Sec'y, '29.

GEORGE KLOTZ, B. S.
"George"
Civil Engineering
Ridgefield Park High School
A. S. C. E.; Football, '25





WALTER B. LANGBEIN, B. S.
"Walt"

Civil Engineering
Stuyvesant High School
A. S. C. E.

ROBERT LAUER, B. S.
"Bob"

Mechanical Engineering
I. I. City Evening High School
Mechanics Institute
A. S. M. E., Treas., '30, Chairman, '31; Class
Vice-Pres., '27, '28; Class Treas., '29, '30, '31;
C. U. N. S. C., '31.

CHARLES F. MATTKE, B. S.
"Mat"

$\Phi \Sigma \Omega$
Mechanical Engineering
Mechanics Institute
A. S. M. E.

CHARLES C. MERRILL, B. S.
"Charlie"

Civil Engineering
Brooklyn Polytechnic Institute
A. S. C. E.; Class Vice-Pres., '31.



ROBERT P. MUHLSTEFF, B. S.
"Bob"

Mechanical Engineering
A. S. M. E.; Class Sec'y, '31.

NORMAN NEWCOMB, B. S.
"Norm"

$\Omega \Delta \Phi$
Civil Engineering
Plainfield High School
A. S. C. E.

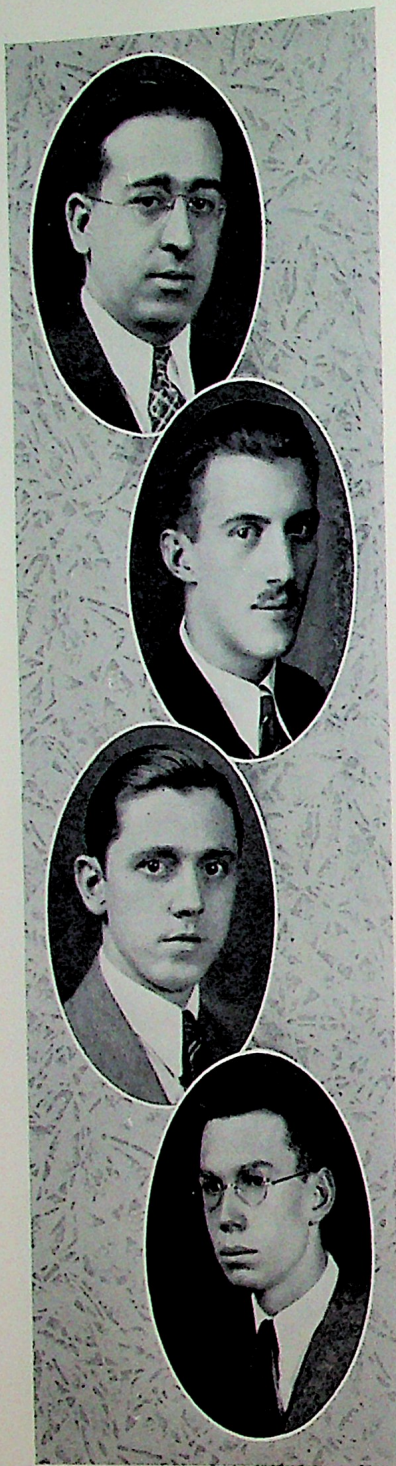
MORRIS NEWMAN, B. S.
"Murray"

Mechanical Engineering
A. S. M. E.

HERMAN PAUTZKE, B. S.
"Hey"

Civil Engineering
Stuyvesant High School
A. S. C. E.; A. S. T. M.





STEPHEN PERRONE, B. S.
"Steve"
 $\Phi \Sigma \Omega$
Mechanical Engineering
A. S. M. E.

EUGENE PFISTER, B. S.
"Gene"
Mechanical Engineering
A. S. M. E.

WALTER E. PILLARTZ, B. S.
"Walter"
Mechanical Engineering
A. S. M. E.

THOMAS POLI, B. S.
"Tom"
Civil Engineering
New York Evening High School
A. S. C. E.; A. S. T. M.



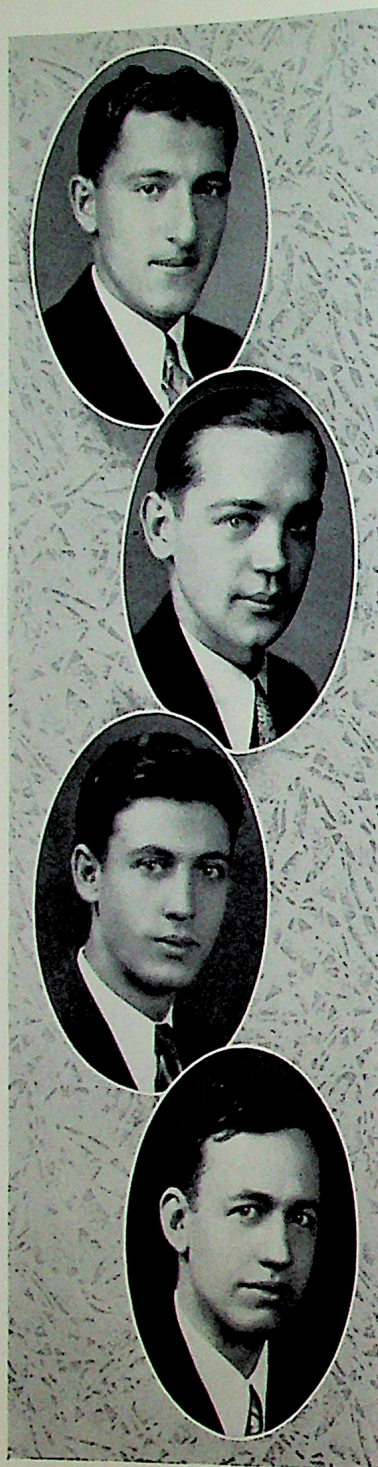
IRVING A. RUDDER, B. S.
"Irv"
Civil Engineering
Brooklyn Evening High School
A. S. C. E.

CARMINE RUOCCO, B. S.
"Phil"
Civil Engineering
Orange High School
A. S. C. E.

MAURICE RUSKIN, B. S.
"Rusty"
Mechanical Engineering
Brooklyn Evening High School
A. S. M. E.

CONRAD SCHMEHL, B. S.
"Connie"
Civil Engineering
A. S. C. E.; A. S. T. M.



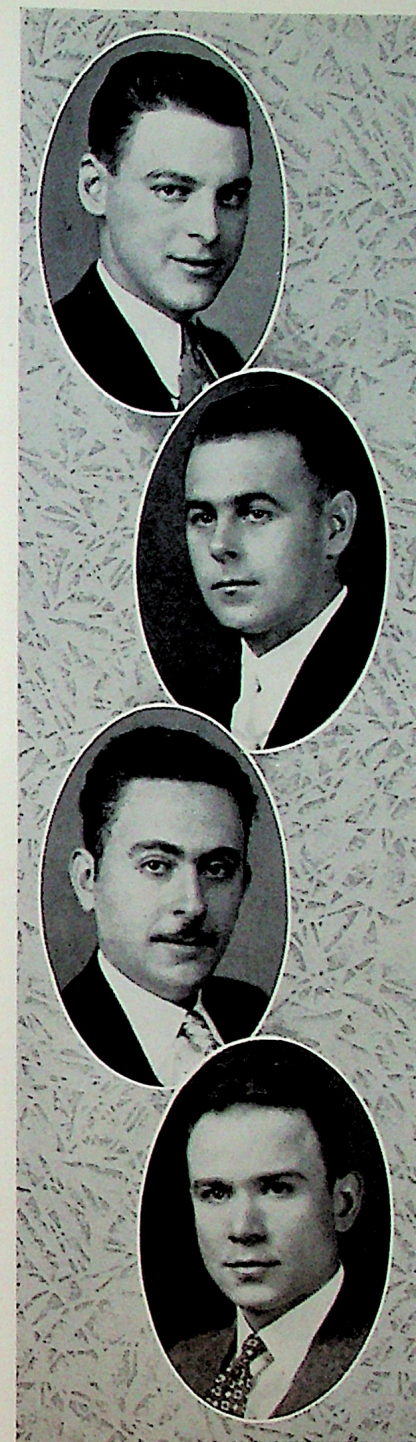


LOUIS SCHULMAN, B. S.
"Lou"
Civil Engineering
Seward Park High School
A. S. C. E.; A. S. T. M.

HENRY J. SIEB, B. S.
"Hank"
 $\Phi \Sigma \Omega$
Mechanical Engineering
A. S. M. E.

WILLIAM F. TIEDEMANN, B. S.
"Bill"
 $\Omega \Delta \Phi$
Civil Engineering
Bushwick High School
A. S. C. E.

GORDON WALLACE, B. S.
"Gordon"
Civil Engineering
Brooklyn Polytechnic Institute
A. S. C. E.; Key Comm., '31.



HENRY G. WANDERER, B. S.
"George"
Civil Engineering
A. S. C. E.

JOHN WEBB, B. S.
"John"
Civil Engineering
Washington Heights Evening High School
C. C. N. Y., A. S. C. E.

JACK J. WOHL, B. S.
"Stonewohl Jackson"
Civil Engineering
Brooklyn Evening High School
C. C. N. Y.
A. S. C. E.

CHARLES ZULEEG, B. S.
"Charlie"
Civil Engineering
New Castle High School, Pa.
A. S. C. E.



Electrical Engineering



President
LEOPOLD VAN BLERKOM

Vice-President
ANTON E. SPARR

Secretary
FRED STOLTE

Treasurer
ANTHONY PANSINI

THE long looked for year when the class would be called a Senior class has waxed and is on the wane. The social activities engaged in during this year, The Senior Hop, The Annual, having a greater and more lasting effect in creating a feeling of good fellowship than those affairs attended during undergraduate years, as being the last to be held as students of The Cooper Union. The participation and interest of the class in school organizations is marked as has been its wont in previous years.

The history made by the class during its five-year stay at Cooper Union—replete as it is with events both social and scholastic—fades in significance in the minds of the students during the few last crowded days of school. The memory of these years spent in Cooper Union will however gain in importance and become more cherished as the years pass by.

It seems strange that the close association and friendships found in a class like ours should be threatened by the realization of the very goal, the quest for which was the cause of their formation. For many, graduation means the end of their school career. For others it is the completion of one more phase in their school career. But whatever the courses and different paths the members should pursue upon graduation, it is only the close association that shall suffer, for the friendship cannot help but be perpetual.

On leaving the well known and well liked portals where the desire for knowledge was so surely aided and enhanced, it is only fitting, that we, as other classes have done before us, express our gratitude to those who have made it possible.

THE HISTORIAN.

Sixty



SIGURD AUTERE, B. S.
"Sig"

Electrical Engineering
Harlem Evening High School

LOUIS BRAIDA, B. S.
"Lou"

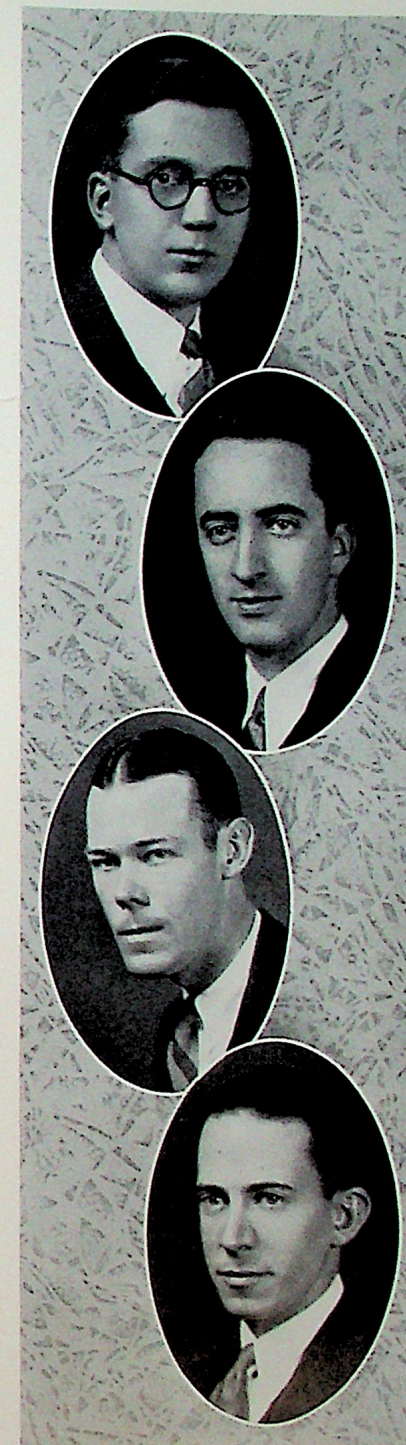
$\Omega \Delta \Phi$
Electrical Engineering
Peekskill High School
Class Treas., '29; Class Sec'y, '30; A. I. E. E.

JOSEPH B. BURNS, JR., B. S.
"Joe"

$\Omega \Delta \Phi$
Electrical Engineering
Newark Preparatory School
A. I. E. E.; Class Pres., '27; Vice-Chairman Junior Prom Comm., '30.

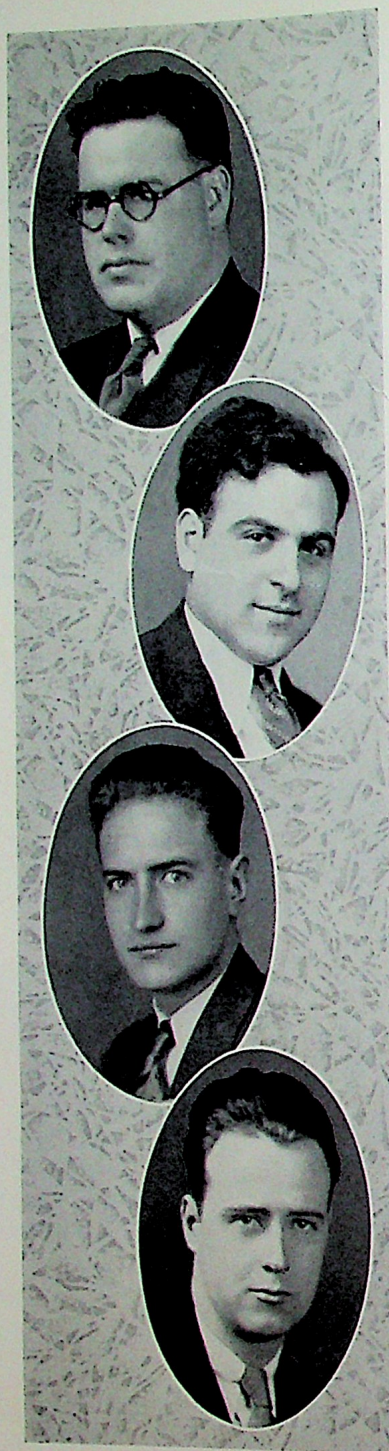
EMMANUEL CASTAING, B. S.
"Mano"

Electrical Engineering
Bay Ridge Evening High School
A. I. E. E.



Sixty-one





CHARLES E. CHISHOLM, B. S.
"Charley"
Electrical Engineering

ROBERT DENMARK, B. S.
"Rob"
Electrical Engineering
Eastern Evening High School
Pratt Institute

AUGUST DOLLE, JR., B. S.
"Gus"
 $\Omega \Delta \Phi$
Electrical Engineering
Manual Training High School
A. I. E. E., Treas., '30, Vice-Pres., '31; Class
Treas., '30; Handball Captain, '29, '30, '31.

EDWIN DUPONT, B. S.
"Ed"
 $\Omega \Delta \Phi$
Electrical Engineering
Stuyvesant High School
A. I. E. E.; Class Vice-Pres., '28; Class Pres., '29;
Annual Dance Comm., '29.

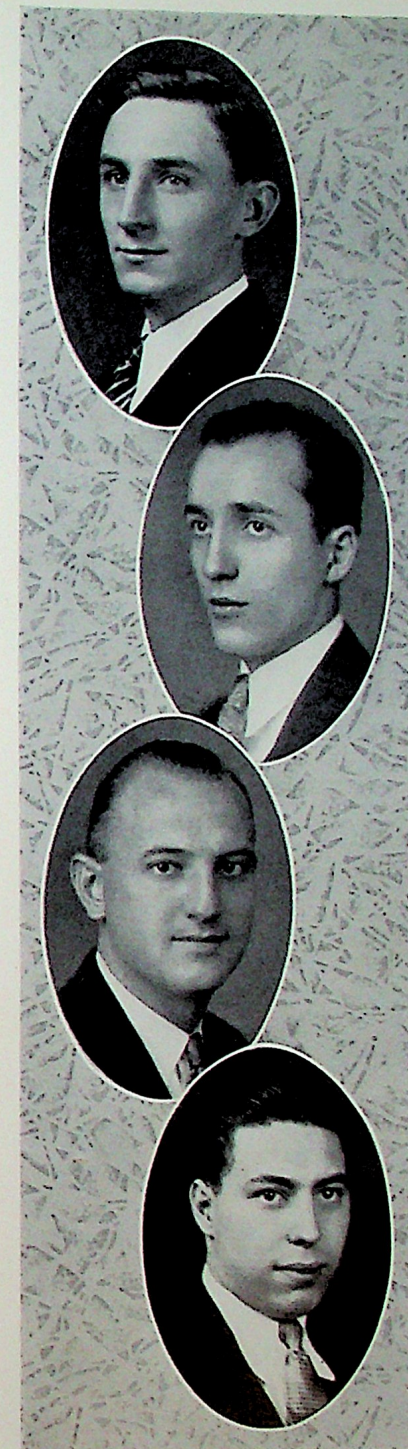


LOUIS O. FOERNSLER, B. S.
"Lou"
 $\Sigma \Lambda \Pi$
Electrical Engineering
Bushwick High School
A. I. E. E.; Track, '28.

GEORGE J. GAYDOS, B. S.
"George"
 $\Omega \Delta \Phi$
Electrical Engineering
Newtown High School
A. I. E. E.

HERMAN GEERKEN, B. S.
"Herman"
Electrical Engineering
Real-Schule in Bremen, Germany

JOHN HAGER, B. S.
"John"
Electrical Engineering
Manual Training High School





FRANK E. HUNTER, B. S.
"Frank"
 $\Phi \Sigma \Omega$
Electrical Engineering
Circulation Mgr., '29 Cable; Ex Post Facto.

ISAAC JOFFE, B. S.
"Ike"
Electrical Engineering
New York Electrical School

JOSEPH KALLEN, B. S.
"Joe"
Electrical Engineering
DeWitt Clinton High School

ARTHUR KLEINFELDER, B. S.
"Art"
 $\Phi \Sigma \Omega$
Electrical Engineering
Emerson High School

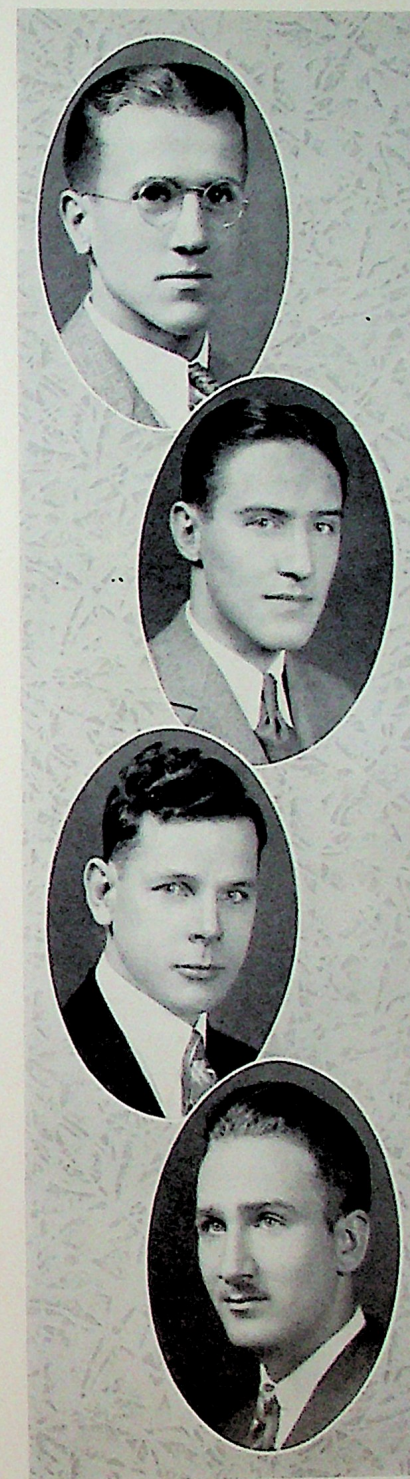


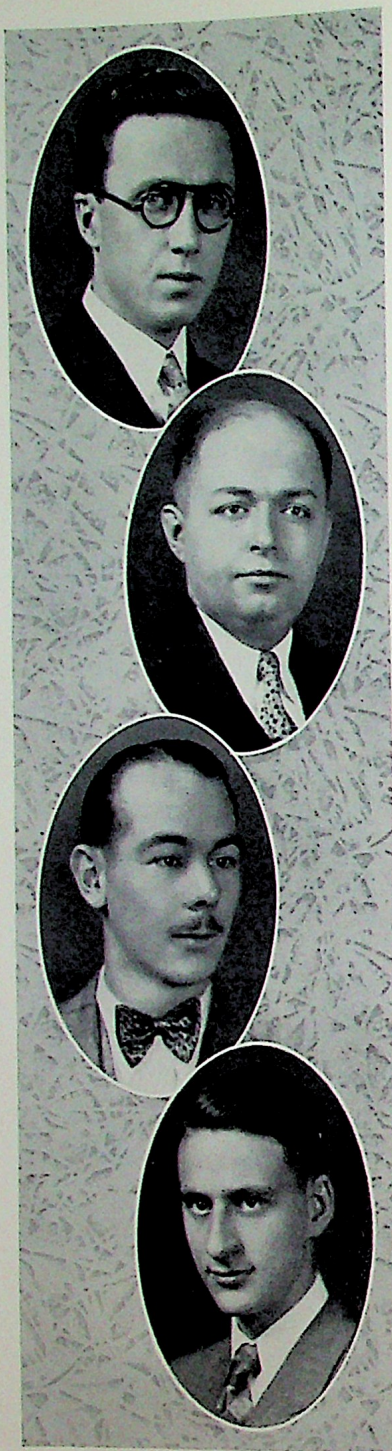
JOHN F. KRAUS, B. S.
"Jack"
 $\Omega \Delta \Phi$
Electrical Engineering
A. I. E. E.; Class Vice-Pres., '30.

EDWARD F. LAZAR, B. S.
"Ed"
 $\Omega \Delta \Phi$
Electrical Engineering
Evander Childs High School

KENNETH LOFGREN, B. S.
"Ken"
 $\Omega \Delta \Phi$
Electrical Engineering
Cranford High School
Class Pres., '28; Junior Prom Comm., '30; Senior
Hop Comm., Treas., '31.

HUNTER A. LUND, B. S.
"Hal"
 $\Omega \Delta \Phi$
Electrical Engineering
Photo Editor, '30 Cable





LEONIDA MARINELLI, B. S.
"Leon"
Electrical Engineering

SAMUEL MILLER, B. S.
"Sam"
Electrical Engineering
Boys' High School
Class Vice-Pres., '29

OSCAR MULLER, B. S.
"Oz"
Electrical Engineering
Clifton High School
A. I. E. E.

ANTHONY PANSINI, B. S.
"Pansy"
Electrical Engineering
Stuyvesant High School

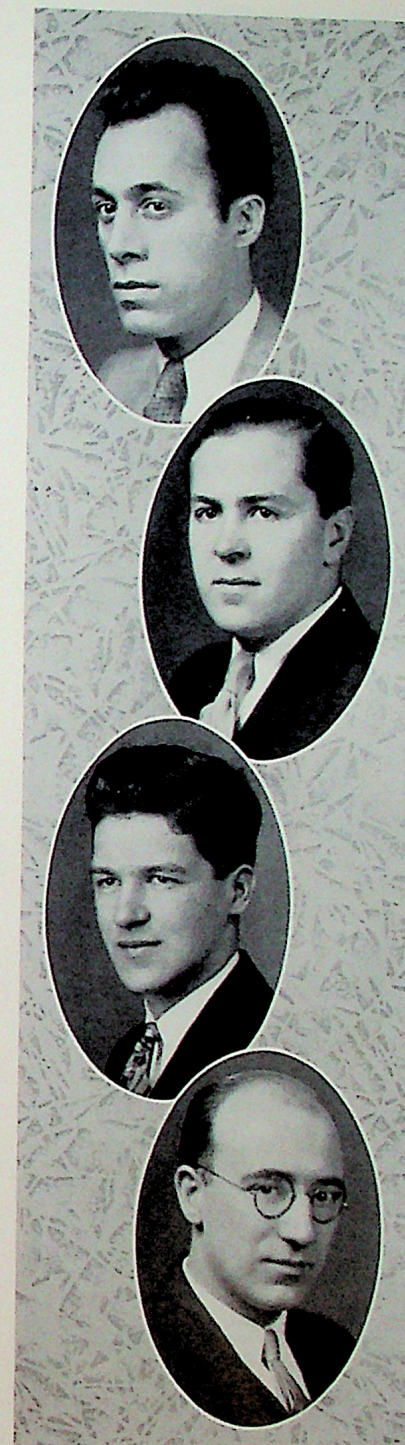


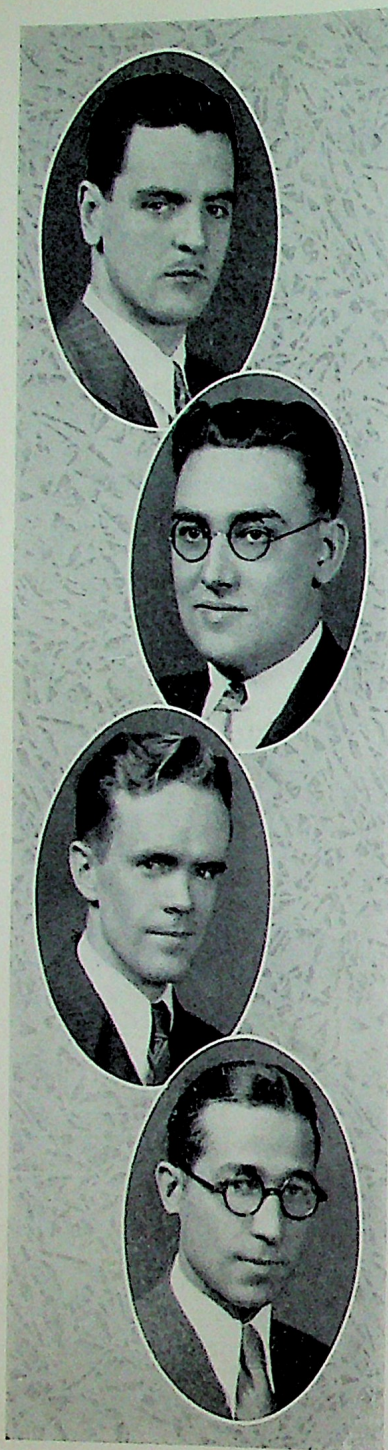
JOSEPH A. PASQUALE, B. S.
"Joe"
 $\Phi \Sigma \Omega$
Electrical Engineering
Stuyvesant High School

JAMES W. PHILLIPS, B. S.
"Jim"
 $\Omega \Delta \Phi$
Electrical Engineering
Brooklyn Technical High School
Business Mgr., '30 Cable; Ex Post Facto, '31;
Senior Key Comm.; Baseball, '29.

FRED RAILE, B. S.
"Fred"
 $\Phi \Sigma \Omega$
Electrical Engineering
A. I. E. E.

JAMES M. ROGIE, B. S.
"Jimmy"
Electrical Engineering
Gordon's College, Scotland
Lowell Institute School





KENNETH ROWLEY, B. S.
"Ken"

$\Phi \Sigma \Omega$

Electrical Engineering
Stuyvesant High School
Columbia University

FRED SEITZ, B. S.
"Fred"

$\Phi \Sigma \Omega$

Electrical Engineering
Stuyvesant High School
C. C. N. Y.
A. I. E. E., Representative, '28.

JOSEPH J. SLAVIN, B. S.
"Joe"

$\Omega \Delta \Phi$

Electrical Engineering
Battin High School
Cable Representative, '30, '31.

ANTON E. SPARR, B. S.
"Sparky"

$\Phi \Sigma \Omega$

Electrical Engineering
Stuyvesant High School
C. C. N. Y.

A. I. E. E.; A. O. Pres., '31, Treas., '30; Basketball, '27, '28, '29, '30, '31; Ass't Basketball Mgr., '31; Baseball, '29; Class Basketball, '27; Class Sec'y, '29; Class Vice-Pres., '31; Gold "C" Comm., C. U. N. S. C., '31; Ass't Night Athletic Editor Pioneer, '31; Athletic Editor, '30 Cable; Ex Post Facto, '31; Gold "C".



FRED STOLTE, B. S.
"Fred"

Electrical Engineering
Morris High School

Cable Board, '30; Ex Post Facto, '31; Class Sec'y, '31.

FRANCIS A. STUTZ, B. S.
"Frank"

$\Phi \Sigma \Omega$

Electrical Engineering
Demarest High School

LEOPOLD VAN BLERKOM, B. S.
"Van"

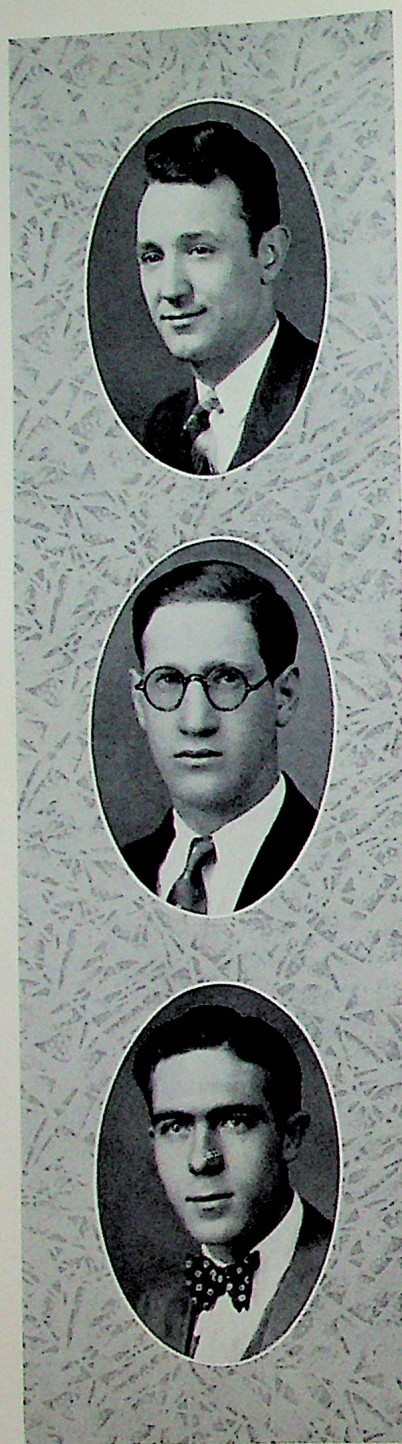
Electrical Engineering
Stuyvesant High School
Columbia University

A. I. E. E.; Annual Dance Comm., '31; Senior Hop Comm., '31; Class Pres., '31.

AL WHELAN, B. S.
"Al"

Electrical Engineering





FRANK J. WINTER, B. S.
"Frank"

Ω Δ Φ

Electrical Engineering
St. Michael's High School
C. U. N. S. C., Vice-Pres., '30; Class Pres., '30;
Pioneer Rep., '27, '29, '30.

ADOLPH WOHLGEMUTH, B. S.
"Hey"

Electrical Engineering
Stuyvesant High School
A. I. E. E.; Key Comm., '31.

ALPHONS WURMSER, B. S.
"Al"

Electrical Engineering
Summit High School

Opportunity

*With doubt and dismay you are smitten
You think there's no chance for you, son?
Why, the best books haven't been written
The best race hasn't been run,
The best score hasn't been made yet,
The best song hasn't been sung,
The best tune hasn't been played yet,
Cheer up, for the world is young!*

*No chance? Why the world is just eager
For things that you ought to create
Its store of true wealth is still meagre
Its needs are incessant and great,
It yearns for more power and beauty
More loyalty, labor and duty,
No chance—why there's nothing but chance!*

*For the best verse hasn't been rhymed yet,
The best house hasn't been planned,
The highest peak hasn't been climbed yet,
The mightiest rivers aren't spanned,
Don't worry and fret, faint hearted,
The chances have just begun,
For the Best jobs haven't been started,
The Best work hasn't been done.*

BERTON BRALEY.



Architecture



President
BERTRAM J. BERTOLAMY

Vice-President
SOL ROBINSON

Secretary
GEORGE H. KONRAD

Treasurer
HARRY T. MALMQUIST

Seniors Farewell

"Tempus Fugit" so they say
For Seniors are we to-day.

In the year twenty-seven to-gether we came
To strive and find the road to fame.
To struggle and fight with one aim in view
To gather all knowledge till the battle was thru
With able instructors we set our goal,
Seeking the mysteries of Architecture so bold.

But that was not all we found to do,
We had to take care of activities too;
To Athletics we gave our men of might,
Other activities claimed our classmates so bright,
And they leave behind a tale of success.

Four years ago strangers were we
To-day a friendship has grown you see;
'Tis hard to part now that all is done,
But separately life's battle has yet to be won,
With the best the instructors and Mr. Miller could give
We stand alone to strive and to live.

"Tempus Fugit" so they say
Friends we seniors part to-day.

THE HISTORIAN

Seventy-two



IRWIN ALTMAN
"Altie"

Architecture
Stuyvesant High School
A. C. C. U.; First Prize, '28; First Mention, '30.

MICHAEL ARCIERE
"Mickey"

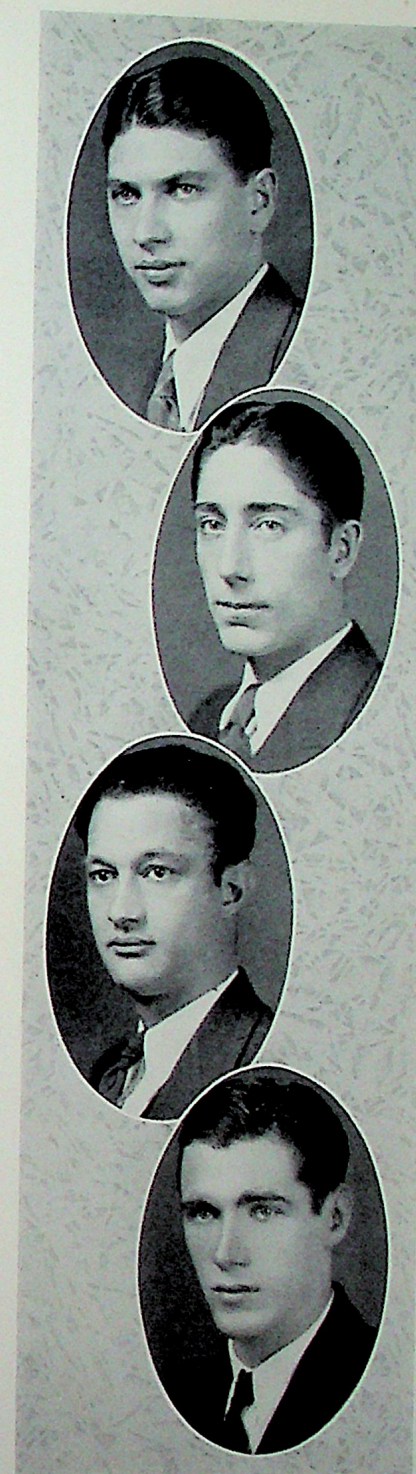
Architecture
A. C. C. U.; Football, '30.

ETTORE ARLOTTA
"Ray"

Architecture
A. C. C. U.

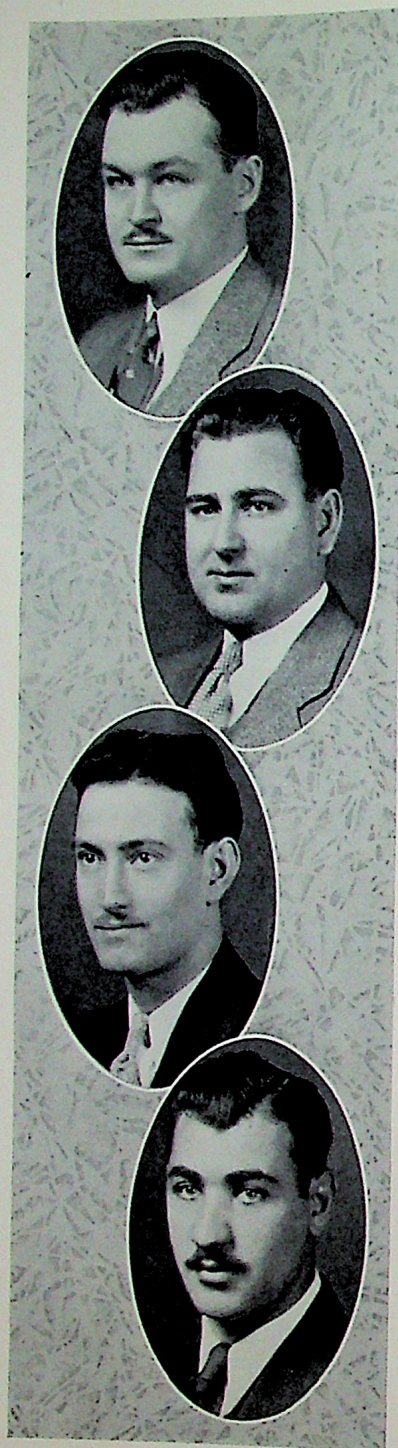
BERNARD BALCUMES
"Barney"

Architecture
Manual Training High School
Baseball, '29; Football, '29.



Seventy three





LYLE RUSSEL STANTON BARNES
"Rus"

Architecture

Brown University

A. C. C. U.; C. U. N. S. C., '29, '31; Class Vice-Pres., '29; Honorable Mention, '30.

EDWIN G. BEIERLEIN
"Eddie"

Architecture

A. C. C. U.; Honorable Mention

BERTRAM BERTOLAMY
"Bert"

Architecture

Stuyvesant High School

West Virginia University

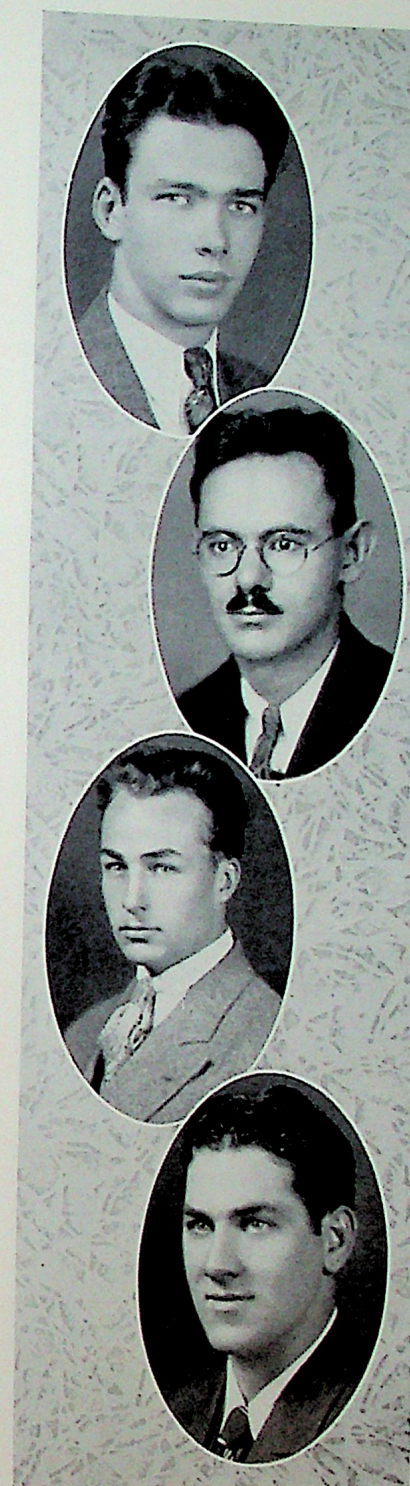
Track, '29, '30; Class Treas., '28; Class Pres., '29, '30, '31; Junior Prom Treas., '30; Chairman Senior Hop, '31; Cable Arch. Editor, '30; Ex Post Facto, '31; Gold "C" Comm., '30; Annual Dance, '30, '31; Arch. Student Council, '28, '29, '30, '31; Pres. Student Council, '31; Gold "C", '30; Sec'y. A. C. C. U.; First Mention, '30.

NATHAN BETROCK
"Nadie"

Architecture

Alexander Hamilton High School

A. C. C. U.



JOHN E. BICKELHAUPT
"Bick"

Architecture

De Witt Clinton High School

A. C. C. U.

JOSEPH DALIS
"Joe"

Architecture

Stuyvesant High School

A. C. C. U.

WILLIAM L. GEYER
"Bull"

Architecture

A. C. C. U.; Football, '28, '29, '30.

JACOB GLICKSMAN
"Utility"

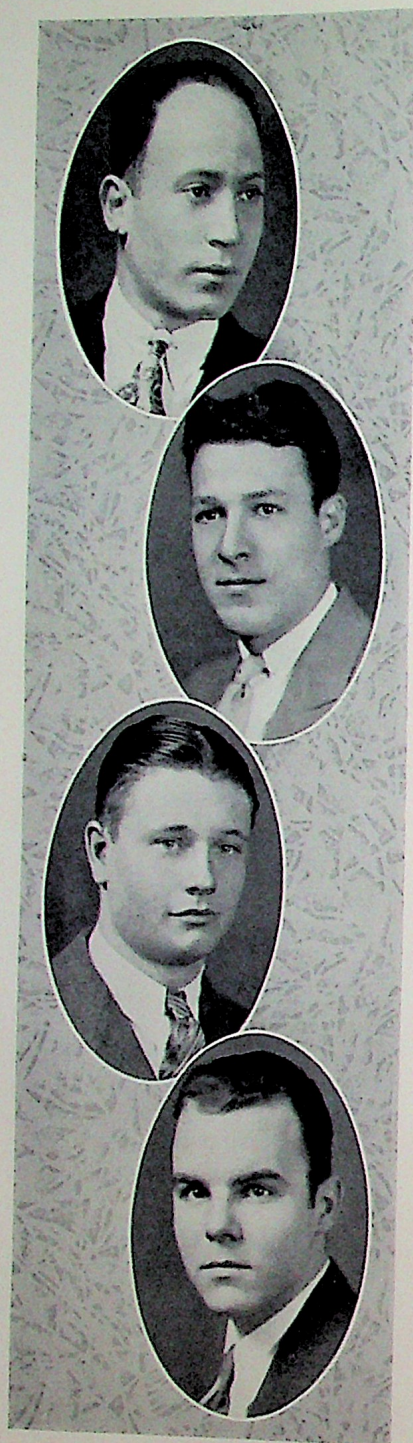
Architecture

Bushwick High School

New York Engineering School

Class Sec'y, '30; C. U. N. S. C., '30; Football, '30; Honorable Mention, '30.





SEBASTIAN GRECCO
"Sebby"

Architecture

A. C. C. U.; Honorable Mention, '30.

HARRY J. HABACH
"Harry"

Architecture

Morris High School

A. C. C. U.; Football, '28, '29; Baseball, '28, '29;
Varsity "C".

JOSEPH J. HEINLEIN
"Joe"

Architecture

A. C. C. U.; Honorable Mention, '30.

HERBERT H. HORN
"Herb"

Architecture

Morris High School

A. C. C. U.; Honorable Mention, '30.



ALEXSAND KIELTYKA
"Al"

Architecture

Saunders Technical High School

A. C. C. U.; Football, '29.

GEORGE H. KONRAD
"Connie"

Architecture

Football, '28, '29.

HARRY MALMQUIST
"Harry"

Architecture

Manual Training High School

A. C. C. U., Treas., '31; C. U. N. S. C., Treas.,
'30, '31; Annual Dance Comm., '30, '31; Class
Treas., '30, '31; Track, '28, '29, '30; Football, '28,
'29, '30; Baseball Mgr., '29, '30; Honorable Mention,
'30; Varsity "C", Football.

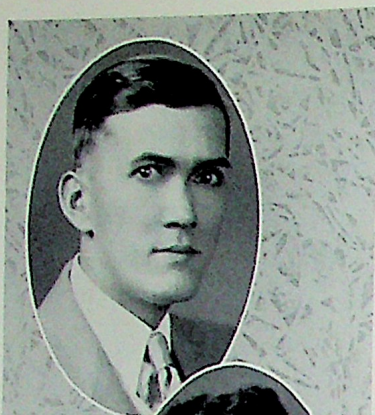
FRED R. NEHLS
"Fred"

Architecture

University of Berlin

A. C. C. U.; Second Prize, '29.





JOSE A. PADILLA
"Joe"
Architecture
San German High School
A. C. C. U.



LAWRENCE PIAZZA
"Larry"
Architecture
Garfield High School
Honorable Mention, '27, '28, '29, '30; A. C. C. U.



HARRY A. POLLACK
"Harry"
Architecture
New York Building School for Structural
Engineering
A. C. C. U.



ISIDORE PRIMOST
"Irv"
Architecture
Honorable Mention, '30; A. C. C. U.



LORIS RAIMONDI
"Lory"

Architecture
Emerson High School
Fourth Prize, '29; Honorable Mention, '30.



JOHN KENNETH ROBERTS
"Ken"

Architecture
Manual Training High School
A. C. C. U.; Honorable Mention, '28, '29.



SOL ROBINSON
"Sol"

Architecture
Stuyvesant High School
A. C. C. U.; Honorable Mention, '28, '29; First
Prize, '30; Class Vice-Pres., '30, '31; Vice-Pres.,
Arch. Student Council, '30; Junior Prom Comm., '30;
Cable Board, '30; Ex Post Facto, '31; Gold "C"
Award, '30; Senior Hop Comm., '31; Annual Dance
Comm., '31.



BATTISTA J. SATTO
"Pete"

Architecture
Vocational High School
Mechanic's Institute
First Prize, '28; Second Prize, '29; Honorable
Mention, '30.



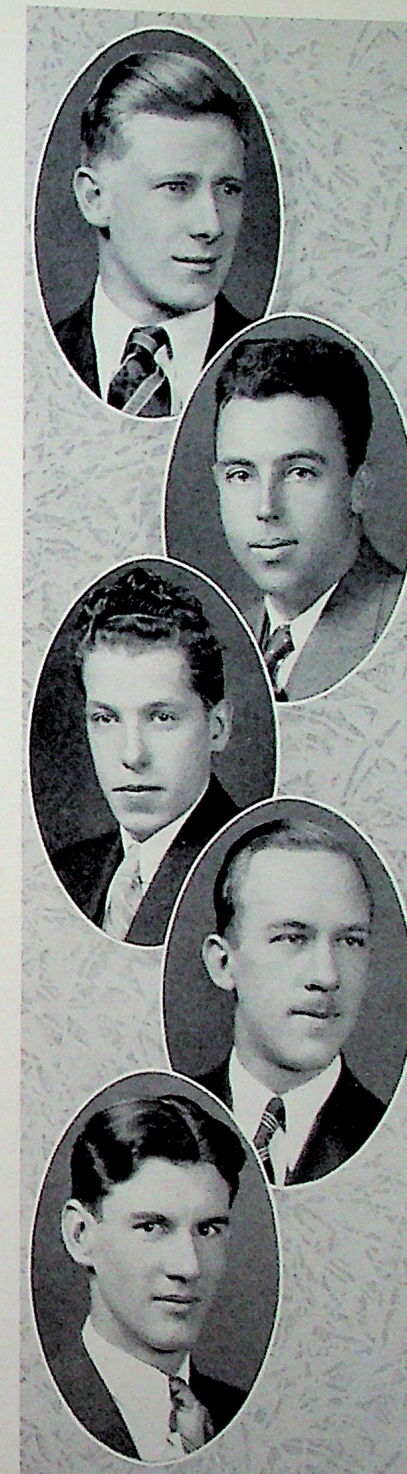


JOSEPH R. SAVINO
"Savvy"
Architecture
A. C. C. U.

ABRAHAM SKOLNICK
"Abe"
Architecture
High School of Commerce
A. C. C. U.

JESSE R. SOLOMON
"Jess"
Architecture
Manual Training High School
Brooklyn C. C. N. Y.
A. C. C. U.; Football, '29.

BERNARD SVOBODA
"Bo"
Architecture
A. C. C. U.



WILLIAM J. TAYLOR
"Bill"
Architecture
West New York High School
Mechanic's Institute
Honorable Mention, '28; Second Prize, '30.

LEON L. TRUDEL
"Trudy"
Architecture
A. C. C. U.

CHRISTOPHER TURNER
"Chris"
Architecture
Murray Hill Vocational High School
A. C. C. U.; Honorable Mention, '28, '30.

CORNELIUS VAN DUINEN
"Van"
Architecture
Hoboken High School
Mechanic's Institute
Honorable Mention, '28, '29.

WESLEY P. STEVENS
"Steve"
Architecture
Paterson Eastside High School
First Mention, '28, '29, '30; Student's Council, '31.



Institute of Technology



President
H. CLARK

Vice-President
J. SHERIDAN

Secretary
J. WEINRUB

Treasurer
S. COHEN

It seems indeed but a very short time ago that a certain group of ambitious young men first graced the "Halls of Cooper" and now the last remnants of the Class of 1931 of the Institute of Technology must bid the School farewell. It is with regret that we survivors now look for the last time as students upon the familiar walls of our Alma Mater. It is with mingled feelings of joy and sorrow that we look back on the four years spent at Cooper.

No attempt is made to enumerate the activities and accomplishments of the class since its inception. It is sufficient to say that among the members of the class are some of the most active men in the school. We have given freely and unselfishly of our time and energy in support of all activities relating to the students.

Something we all cherish in our memories is the dinner and theatre party in our Sophomore year. That never to be forgotten affair served to bring the members of the class into more intimate relations with the Faculty. We have not recovered from our shock at the theatre party when our professors and instructors fought in a most undignified manner for the possession of the few opera glasses that had been brought.

This year we are planning to duplicate our success with another dinner and theatre party and it is hoped that the members of the class will have enough presence of mind to bring sufficient opera glasses.

As our story here draws to a close our thoughts turn to the faculty and we sincerely hope and trust that they have not labored in vain and that we shall bring fame to Cooper Union.

THE HISTORIAN.

Eighty-two



GEORGE ABRAHAMSEN, B. S.
"Swede"

Σ A II

Electrical Engineering

Tech.

Jamaica High School

A. I. E. E.; Baseball, '28, '30; Math Club, '28, '29, '30, '31.

VICTOR BEHN, B. S.
"Vic"

M A O

Electrical Engineering

Tech.

Alexander Hamilton High School

Math Club, '28, '29, '30, '31; Baseball, '28, '31; A. I. E. E.

HERBERT BURMEISTER, B. S.
"Burmie"

Electrical Engineering

Tech.

Port Washington High School

Math Club, '28, '29, '30, '31; A. I. E. E.; Rifle Club, '31.

JAMES COHEN, B. S.
"Jimmie"

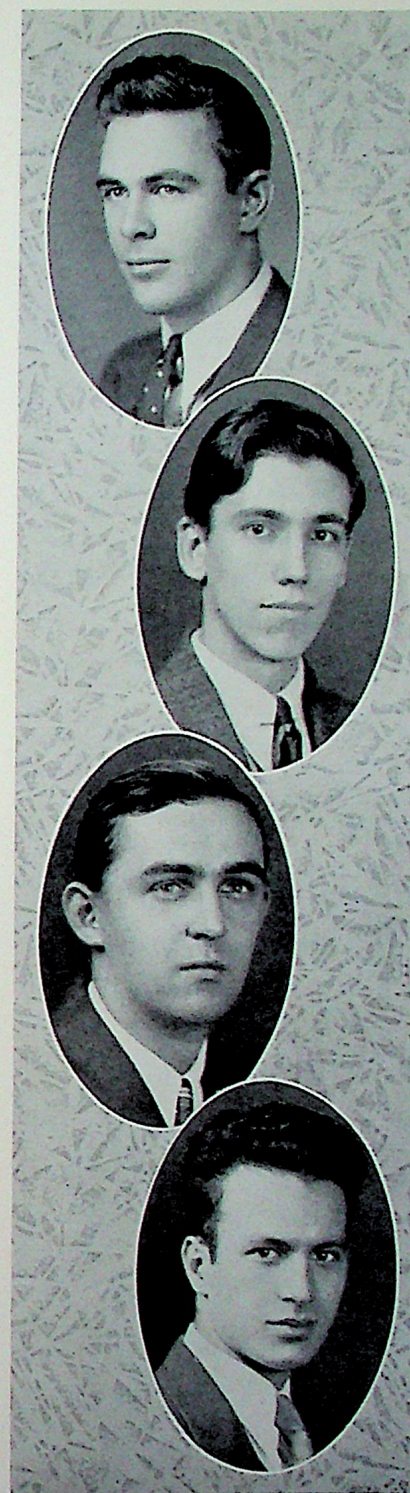
A M Σ

Chemical Engineering

Tech.

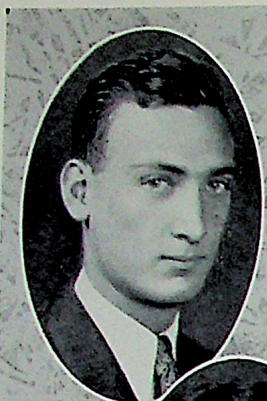
Flushing High School

Math Club; Rifle Club; Student Council, '29, '30; A. I. Ch. E.; Pres., '31, Vice-Pres., '30; Mgr. Basketball, '31; Pioneer Staff, '28, '29, '30, '31.



Eighty-three





SAM COHEN, B. S.
"Bronxie"

Civil Engineering
Tech.

De Witt Clinton High School
A. S. C. E.; Class Basketball; Class Treas., '30.



HOWARD CLARK, B. S.
"Howie"

$\Omega \Delta \Phi$
Electrical Engineering
Tech.

Passaic High School

A. I. E. E.; Math Club, '30, '31; Rifle Club, '28, '30; Rifle Team, '30; Class Treas., '29, '30; Class Pres., '31.



MILTON L. GILL, B. S.
"Milt"

$\Omega \Delta \Phi$
Civil Engineering
Tech.

A. S. C. E.; Rifle Team, '28; Math Club.



JULES R. GILBERT, B. S.
"Jules"

Chemical Engineering
Tech.

De Witt Clinton High School
Columbia University

A. I. Ch. E.



SIDNEY GREENBERG, B. S.
"Sid"

Mechanical Engineering
Tech.

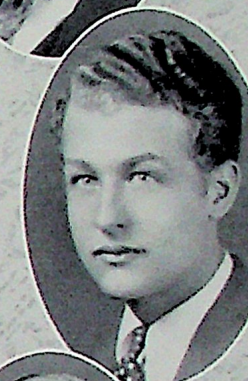


HERMAN GRISSLER, B. S.
"Griss"

$\Omega \Delta \Phi$
Electrical Engineering
Tech.

Brooklyn Technical High School

Math Club, '28; Rifle Club, '31; Class Sec'y, '30;
A. I. E. E., Sec'y, '30, Chairman, '31; Pioneer Editor, '31; Feature Editor, '30.



NICHOLAS JUCCARONE, B. S.
"Nick"

Electrical Engineering
Tech.

Curtis High School

Math Club, '30, '31; Rifle Club, '30; A. I. E. E.;
Student Council, '30.



ROBERT H. C. KASTENS, B. S.
"Bob"

Electrical Engineering
Tech.

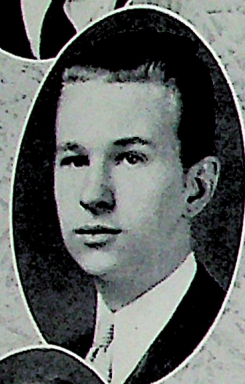
Union City High School

Math Club, '29, '30, '31; A. I. E. E.; Rifle Club,
'30, '31; Pioneer Tech Board, '31.





GEORGE KAUBER, B. S.
"George"
 $\Omega \Delta \Phi$
Chemical Engineering
Tech.
Trinity High School
Math Club; A. I. Ch. E.



LESTER A. KENWORTHY, B. S.
"Lester"
 $\Omega \Delta \Phi$
Chemical Engineering
Tech.
Math Club; A. I. Ch. E.; A. S. T. M.



JOSEPH LIPSHITZ, B. S.
"Joe Probability"
Civil Engineering
Tech.
Boys' High School
A. S. C. E.



MAX MATZICK, B. S.
"Max"
Civil Engineering
Tech.
Dickinson High School
Math Club; A. S. C. E.; Student Council, '31.

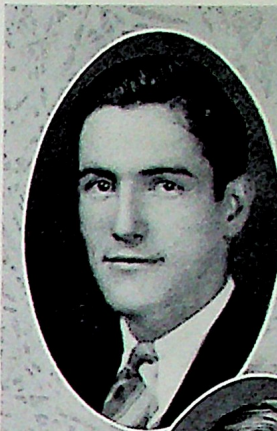


JAMES MURPHY, B. S.
"Jim"

MAO, $\Lambda \Sigma K$
Electrical Engineering
Tech.

Brooklyn College Prep. School

A. I. E. E.; Pres. A. A., '31, Vice-Pres., '30;
Treas. Student Council, '31, Jr. Executive, '30; Math
Club, Vice-Pres., '31, Sec'y, '30; Baseball, '28, '30.

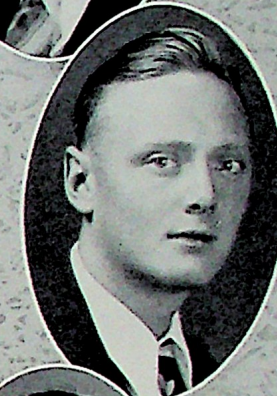


HENRY NILSSON, B. S.
"Hen"

$\Omega \Delta \Phi$
Electrical Engineering
Tech.

Brooklyn Technical High School

Class Vice-Pres., '30; Sec'y, A. A., '30; Basketball,
'28.



GEORGE H. O'SULLIVAN, B. S.
"George"

$\Omega \Delta \Phi$
Electrical Engineering
Tech.

Regis High School

A. I. E. E.; A. S. T. M.; Class Sec'y, '29; Class
Pres., '30; Chairman Junior Prom, '30; Pioneer
Staff, '31; Press Club, '30; Class Basketball, '30.



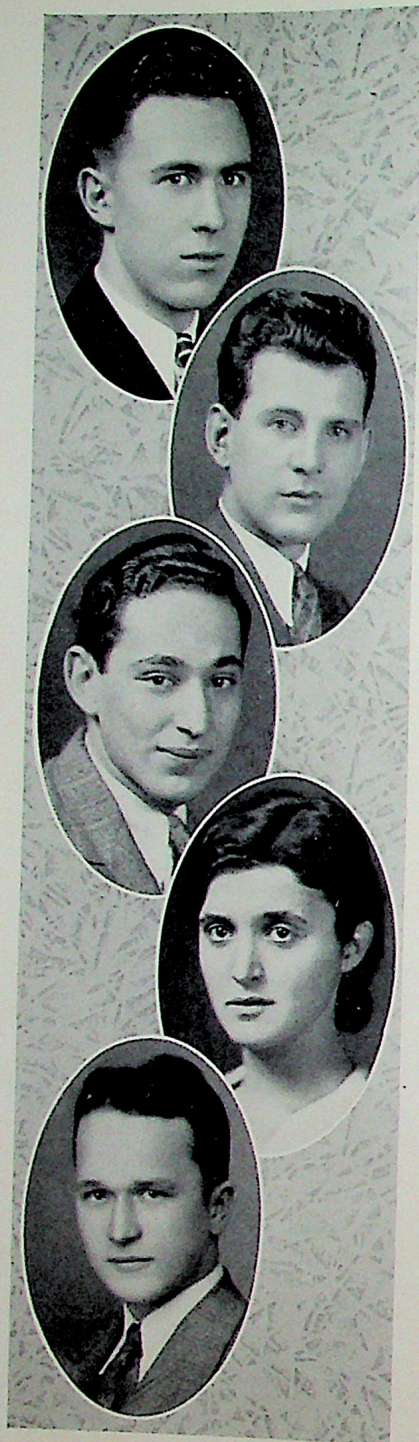
THOMAS PALEDES, B. S.
"Thom"

Electrical Engineering
Tech.

Stuyvesant High School

Math Club; A. I. E. E.; A. S. T. M.; Pioneer, '28,
'29.





WILLIS D. PETERS, B. S.
"Bill"

MAO, $\Lambda \Sigma K$
Electrical Engineering
Tech.

Spring Valley High School

A. S. C. E.; A. S. T. M.; Math Club, '30, '31;
Student Council, '29, Senior Executive, '30, '31;
Baseball, '28, '30, '31, Ass't Mgr., '30, Mgr., '31;
Class Basketball, '28, '29, '31; Executive Comm.
A. A., '30, '31.

DAVID RABINOW, B. S.
"Dave"

MAO, $\Lambda \Sigma K$
Electrical Engineering
Tech.

Boys' High School

A. I. E. E.; Student Council, Pres., '31, Vice-
Pres., '30; Class Pres., '29; Rifle Team Mgr., '31,
Ass't Mgr., '30; Tech Ed. '30 Cable; Ex Post Facto,
'31; Sec'y Math Club, '30; Jr. Prom Comm., '30;
Ex. Comm. A. A., '29, '30, '31; Tennis Club, '29;
Chairman Key Comm., '31.

MELVIN T. SALTZMAN, B. S.
"Mel"

$\Sigma I \Xi$
Civil Engineering
Tech.

Boys' High School

Student Council, '31; Class Basketball; A. S. C. E.;
Tech Circulation Mgr. '30 Cable; Ex Post Facto, '31.

ESTHER SCHILIAN, B. S.
"Esther"

Chemical Engineering
Tech.

Girls' High School

Math Club; A. I. Ch. E.; Student Council.

HENRY SCHOENFISCH, B. S.
"Hen"

$\Omega \Delta \Phi$
Electrical Engineering
Dickinson High School



J. RODGER SHERIDAN, B. S.
"Sherry"

$\Omega \Delta \Phi$
Chemical Engineering
Tech.

Panama Canal Zone High School

Class Vice-Pres., '30; Managing Editor Pioneer,
'28; A. I. Ch. E.; Math Club.

LOUIS STEINBERG, B. S.
"Lou"

Mechanical Engineering
Tech.

Stuyvesant High School

A. S. M. E.

CHARLES STOLZENBACH, B. S.
"Stolzy"

Chemical Engineering
Commerce High School
Tech.

Pioneer, '28, '29

ROBERT SULLIVAN, B. S.
"Bob"

Civil Engineering
Tech.

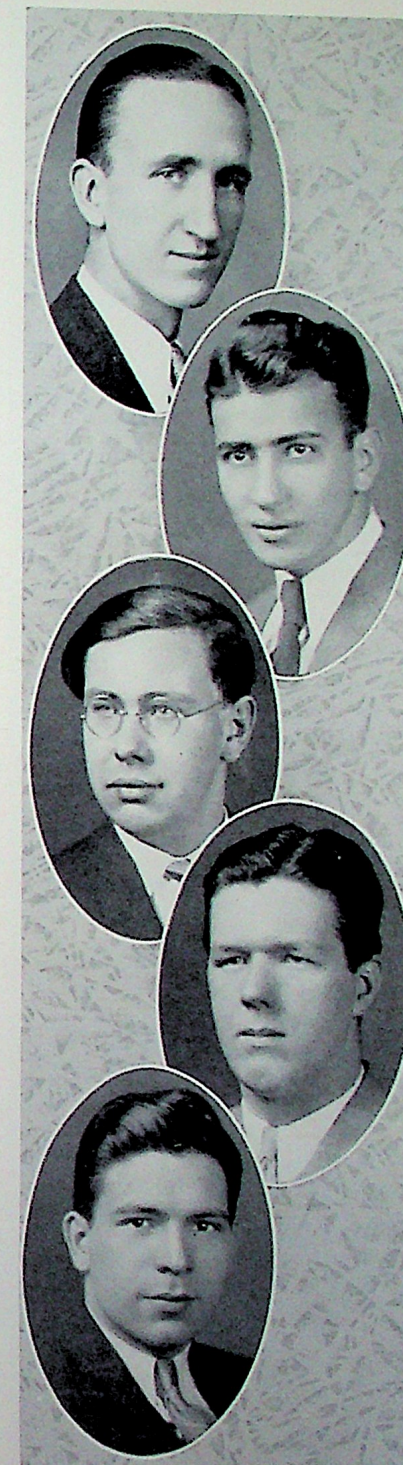
A. S. C. E.; Math Club

ERNST TONJES, B. S.
"Ernie"

$\Sigma A \Pi$
Civil Engineering
Tech.

Brooklyn Technical High School

Junior Prom Comm., '30; Tech Dance Comm.,
'30; Senior Comm., '31; Pioneer, '31; Math Club,
'31.





WILLIAM VOPAT, B. S.
"Bill"

A Σ K, M A O
Mechanical Engineering
Tech.

Bryant High School

Sec'y A. S. M. E., '29; Vice-Pres. A. S. M. E., '30;
Math Club; Junior Prom Comm., '30; A. S. M. E.;
Scholarship, '28, '29, '30.

JOSEPH WEINRUB, B. S.
"Joe"

Σ I Ξ
Civil Engineering
Tech.

Stuyvesant High School

Sec'y, A. S. C. E., '30; Chm., A. S. C. E., '31;
Class Sec'y, '31.

SIGMUND WEINTRAUB, B. S.
"Sig"

A M Σ
Electrical Engineering
Tech.

Paterson High School

A. I. E. E.; Basketball; Capt. Basketball, '30, '31;
Treas., A. A., '31.

ROBERT WOLINS, B. S.
"Bob"

Chemical Engineering
Tech.

Morris High School

C. U. S. C., '31; Sec'y, A. I. Ch. E., '31.



Chemical Engineering



President

MARTE PREVITI

Vice-President

WILLIAM PILLARTZ

Secretary

JAMES E. LOUGHLIN

Treasurer

JOSEPH MROWKA

FOR the first year since our entrance into Cooper Union, our class has not suffered any diminution of its roster. In four years we have been reduced to the enormous number of six. This enables practically every member of the class to hold some office.

In our first year we were too busy adapting ourselves to the night life of this institution to hold any class affair.

We commenced our second year with only half of our original number. However, this did not deter us as we ran a function which was voted a huge success, both by the class and by those members of the faculty who were kind enough to be our guests.

Exams—and the chopping block again—the result six men left. This decrease in geometrical progression bids fair to eliminate the class entirely.

In our third year we again had a party. The class went to see the musical comedy, "Top Speed", after which we visited one of the popular food dispensaries on the Main Stem. A very enjoyable evening was spent by all.

Since history repeats itself, this year we again sallied forth and had a perfect evening at that brilliant success, the Junior Promenade. Plans are being made for another class affair at present.

Our class has always been well represented in extra-curricular activities. THE CABLE, Junior Prom, Night Annual and Pioneers are aided by members of our group.

We expect the present group to graduate together and to remain good friends after our stay at Cooper is ended. Plans are being considered for regular Annual Reunions in order to revive the memories of those very pleasant years at our Alma Mater as budding engineers.



HOWARD DUFFY

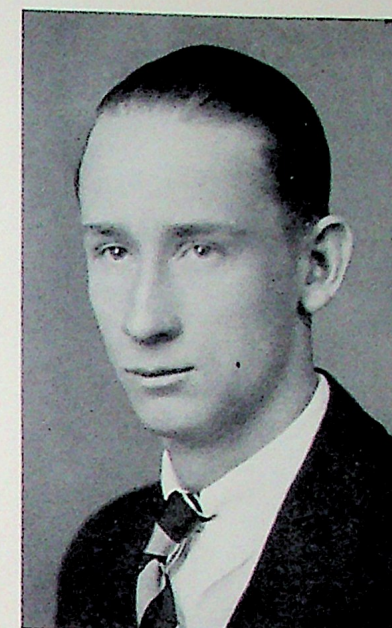
"Duff"

Chemical Engineering

Murray Hill Vocational

Math Club, '29, '30, '31; Chem. Soc., '29, '30, '31; Wrestling, Class Vice-Pres., '29; Class Pres., '30.

Duffy was elected President of the class this year but resigned. He knew these were but empty honors with no work attached to the job, so he quit. That is Howard all over, a solid substantial fellow. When he learns a formula or theory it stays learned, and he is never caught unawares in quiz. Of course, he gets excited in Lab. and breaks still heads when distilling alcohol, but don't forget he's Irish. He can hold his liquor and his women. He brings the same sweet woman to every dance. Howard holds Tuxedos in high contempt. He says he believes in wearing his own suit. It's a dirty shame, he'd look great in a tux too.



A. LEON FISHBACH

"Lee"

A M S

Chemical Engineering

Night Math Society, '29, '30, Treas., '30; A. I. Ch. E., Treas., '30; Track Team, '27, '28; Pioneer, '27; Chemists Club.

From the list of his activities it can readily be seen that Lee is about the most trusted fellow in the class. He has been treasurer of several clubs at the same time. He has also succeeded in raising the best mustache in his class.

At a meeting of the Math Club he gave a talk on Einstein's pet subject, "Time Space." Nobody understood what it was all about, therefore he probably knows what he was talking about.

He is the only member of his class who is never seen with a text book. For a long time he was thought to be a teetotaler and a one-woman man, then the disillusion came.





JAMES E. LOUGHLIN

"Jimmy"

Ω Δ Φ

Chemical Engineering
Central High School

Class Sec'y, '28, '30; Chem. Eng. Soc.; Swimming Team; Junior Prom Comm., '31.

Jimmy Loughlin has shown himself to be gifted with a great ability to turn out good write-ups of Class affairs. His annual accounts of our class parties have been among the outstanding articles in the Pioneer for wit, cleverness and descriptive ability. He is an excellent swimmer and an exceptionally good diver. His strong point is Chemistry, and he is usually ahead of the class in Lab. work. Mechanical Drawing is his Waterloo. Jimmy has proved himself to be a good fellow in class and on parties, but he can't hold his liquor. We expect him to be a respected Chemist in the dyestuff industry.



JOSEPH MROWKA

*"Joe"*Chemical Engineering
Bushwick High School

A. I. Ch. E.; Class Treas., '31; Junior Prom Comm., '31.

Joe may usually be seen in the company of Duffy or else riding pell-mell through Brooklyn on a 1906 Indian and wearing a hat which he uses to fill the radiator with. Of course, he doesn't wear the hat to school except on rainy days. Joe sees every Broadway show that's worthwhile, and we always have him choose the show which we are to see on our annual affairs. He sure picks the good ones. That's probably why he brings such nice women to our dances. We often wonder why he doesn't bring his motorbike to school. Maybe its that girl that rides the 14th St. Line to Brooklyn every night. Why not carry her on the handle bars Joe, and save the car fare?



WILLIAM PILLARTZ

"Bill"

Chemical Engineering

New York Evening High School

A. I. Ch. E., Vice-Pres., '31; Cable Rep., '31.

Bill is the blond paisano with the German name. Even Mr. Tanzola didn't recognize him as a landsman. Bill is our best-liked and least troublesome classmate, which shows what a swell fellow he is when we consider the T. N. T. he gives us. Bill is a conscientious worker for all those class activities in which he interests himself. He is an expert at welding iron, but falls down when trying to draw an I-beam. Bill is a great fellow for coming in Monday and relating his escapades over the week-end. Bill does not rise to dizzy heights in any one subject, but is a steady fellow and manages to accumulate an imposing number of B's..



MARTE PREVITI

"Marty"

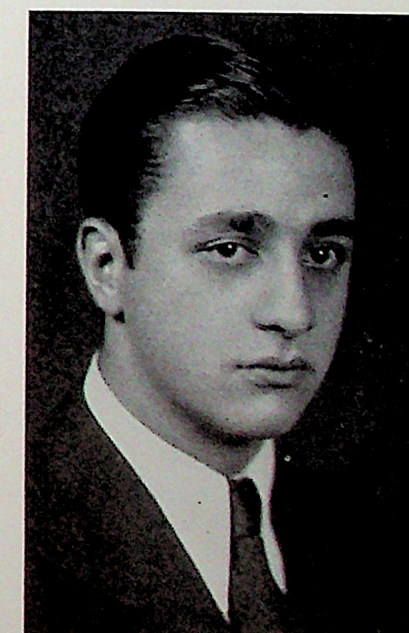
Ω Δ Φ

Chemical Engineering

De Witt Clinton High School

A. I. Ch. E.; Class Pres., '31; Athletic Editor '31 Cable; C. U. N. S. C., '31; Annual Dance Comm., '31; Gold "C" Award; Ex Post Facto, '32; Class Vice-Pres., Sec'y Treas., '30; Class Sec'y, Treas., '29.

Marty has always been a popular fellow in our class. He has usually been elected to officerships in each year's elections. Marty ought to be able to collect a large amount of this world's goods if the manner in which he wheedles money from class members is any indication. He is an expert marksman, having been awarded the U. S. sharpshooter's medal. He may be found in the O. D. P. rooms shooting pool when he isn't over on Broadway and Eighth St. shooting bow and arrows.



General Science



President

JACK T. JACKMAN, JR.

Vice-President

FRED C. STEIN, JR.

Secretary

VINCENT CODY

Treasurer

JOHN G. KEARNEY

THE entrance of the General Science Class of 1932 into Cooper Union was very unpropitious to say the least. Nevertheless despite the inauspicious way in which these men of "General Science 1932" made their debut at college, it was not long before the upper classmen began to realize that a very valuable and important addition had just been made to the Cooper Union Student body. From the start the men of this class took a keen interest in the extra-curricula activities of Cooper and ere long were well represented in nearly all of the organizations of the school.

After this most successful start the class continued to prosper under the capable leadership of such men as Paul Thornton, "Vince" Cody and "Jerry" Musilek, taking part in the various school activities throughout each year and holding the annual class party at the end of each year until it arrived triumphantly at the threshold of the Junior year, the most colorful and eventful year of all. At this point the reins were turned over to "Jack" Jackman, president-elect for the Junior year, and he has capably led the class through this all important year with a proficiency equalling that of his three illustrious predecessors.

This year, especially for the juniors, has been crowded with extra-curricula activity. Aside from the regular school activities and social events—the two which are peculiar to the Junior year at Cooper, that is the CABLE and the Junior Promenade, stand out as the greatest masterpieces of endeavor of the entire school year. The 1931 CABLE, and we are justly proud of it, it is truly a work of art. The Junior "Prom" in reality a Cooper Union affair, was held under the auspices of the Juniors of both the day and night schools. It was an unquestionably great success.

THE HISTORIAN



WILLIAM BATTISTA

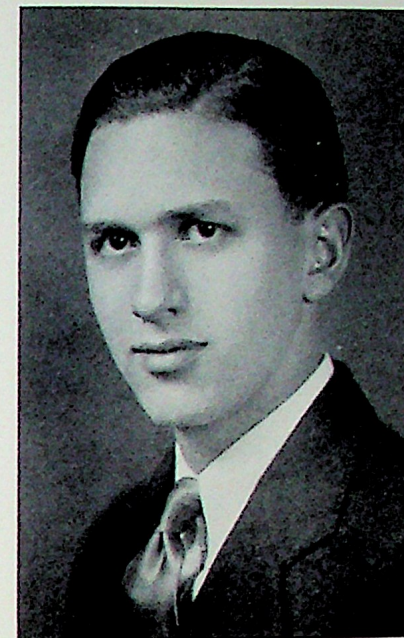
"Bill"

Mechanical Engineering

Stuyvesant High School

Pioneer Exchange Editor, '30, '31; Newman Club.

Our glorious William, almost the Adonis of New York City (Rudy V. is still alive, isn't he?), has a terrible time with the women. Ask any of his inebriate friends. Bill has been a budding columnist in the Pioneer, but whether or not he is a successful journalist is another point. Joking aside, Bill works until all hours of the night to pass his exams., as he has apparently done up to his junior year. His sports bring him in contact with the ground quite often. His many scars will bear the proof. For instance, leap frog with a motorcycle is just child's play with him. Bill always follows that old adage which says, "Work hard, play hard, *sleep* hard, and so on ad infinitum."



LEO A. BONNEMA

"Socks"

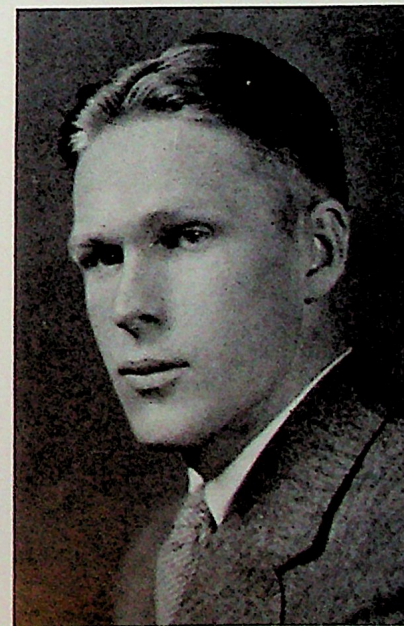
Civil Engineering

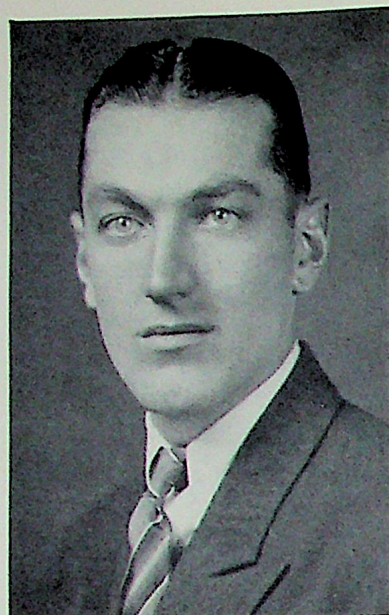
Garfield High School

Mr. Leo A., alias "Socks," is one of the leading citizens of Garfield, N. J. He is also a leading student at Cooper. This is not the reason he is the leading citizen. The reason is far deeper and beyond the scope of this book.

"Socks" works for the Bergen County Engineers, which no doubt accounts for his actions at night.

He is a deep student in the art of Hydraulics, spending many hours in the lab. attempting to prove that Bernoulli is all wet. He hopes to graduate and improve Bergen County with his manifold knowledge. So stay out of the town, for it is possible that he might build a bridge or building, and the County is not responsible for loss of life.





WILLIAM C. BRASS

"Our Bill"

Ω Δ Φ

Civil Engineering

Bryant High School

A. S. C. E., Football, '27, '28, '29, Mgr. '27, '29, Ass't Mgr. '28, Tennis Club '27, '28, Class Vice-Pres, '27.

When you speak about football, you just have to think about Bill. This is his favorite sport and is always showing his interest and spirit by playing for Dear Old Cooper when able, and helping to manage the team.

When it comes to social activities, you always find him at the dances performing acts which call for skill and finesse in the art of Acrobatics. His form of dancing appeals to the maidens, as he is one of their idols. One wouldn't think a football hero could be quite the unique stepper he is, but ask the ladies.

To us Bill is a very skilled young man almost at everything but women.



ROBERT BURKE

"Boik"

Civil Engineering

Brooklyn Technical High School

A. S. C. E.

Ever since the class of 1932 set out on the tempestuous sea of engineering, Burke has stood out as the one member of the crew certain to cross the finish-line, all sheets in the wind, leaving a clean wake.

According to his own statements, it is his might that guides the New York Steam Co. on the rocky paths to success. But judging from his excellent scholastic records, we are apt to believe that the concern's interests do not weigh so heavily on his shoulders.

His solid character and jovial Irish spirit is certain to bring him success in business as well as social life, provided he doesn't appear too green on some St. Patrick's Day.



VINCENT C. CODY

"Pop"

Φ Σ Ω

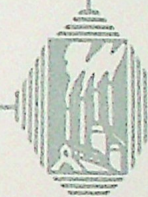
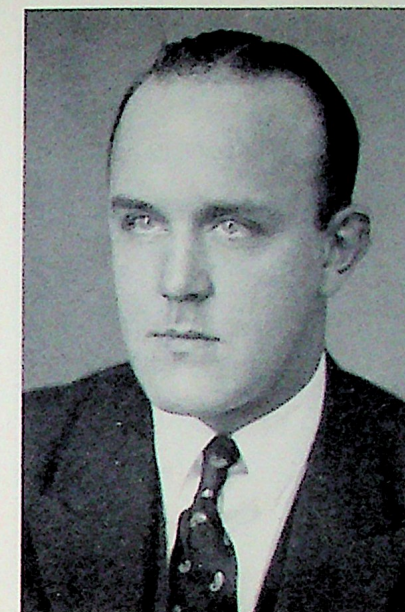
Civil Engineering

Boro Prep. School

A. S. C. E.; A. S. T. M.; Newman Club; Class Pres., '29; C. U. N. S. C., '29; Annual Affair Comm., '29; Class Vice-Pres., '30; Treas. Newman Club, '30; Class Sec'y, '31; Staff Ed. '31 Cable; Gold "C" Award; Ex Post Facto, '32.

How a man coming from Staten Island could be a leader among his fellows is still a question. But he seems to be living it down and doing a pretty good job at that, just look at his activities.

Although he is modest, we know his main activity is keeping the wild women of the Isle. under control. We have not seen any of his harem, but from his steady loss of hair it appears that they are still wild. It is still a mystery how he falls asleep in lectures and yet knows what it is about.



PHILIP H. COHEN

"Phil"

Mechanical Engineering

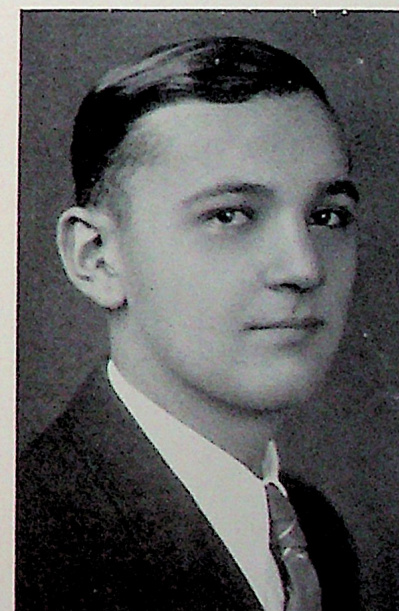
Alexander Hamilton High School

Tech Rifle Club, '28; Tech Rifle Team, '29.

A. S. M. E.

A rambling wreck from Cooper Tech.

The gunman from Flatbush, who shoots anything from lead to hot air. However, he is commendably good at target practice. That old calculating squint of his has meant the beginning of the end for many a perfectly good bull's eye. He is now waiting for a chance to break loose and make the lead fly. In spite of this ferocious spirit, he has never killed any one—yet. In fact, he is quite harmless.





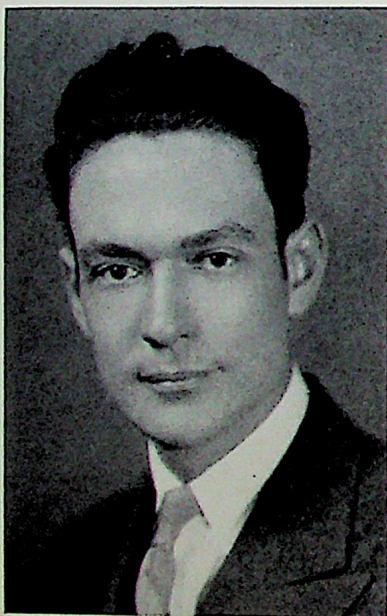
CHARLES M. COUSENS
"Chil"
 Civil Engineering
 Brooklyn Technical High School
 A. S. C. E.

Charles has two great ambitions. He wants first to master all the intricacies of engineering. But following closely is the resolve that when better jokes are told, he will tell them.

From his conscientious manner of pursuing these two ambitions, success is assured.

His rare musical ability, combined with a poker-faced earnestness in curricular and social activities, has won for him the admiration and friendship of the entire class.

We all join in the sincere wish that he may have a great engineering career, and that when better jokes are told, Charles will tell them.



HERBERT DISNEY
"Diz"
 Civil Engineering
 Johns Hopkins University

Altho Disney hasn't been with us very long, he has made a host of friends at Cooper. He is a mighty pleasant fellow, easy to get along with, and always ready to help. A mature, cool thinker (especially when studying heat), he makes an excellent companion for study. His friendship is a source of pleasure and profit to those who are fortunate in having it.

Like "Dix," Disney has a lot of humor (we suspect it's wet), and a ready flow of wit. He is undoubtedly a good mixer, if one is to judge by the speed with which he became one of us.

Disney is the proud possessor of the most complete brief case in Cooper. Many a man goes to Europe with a steamer trunk smaller than this famous bag.

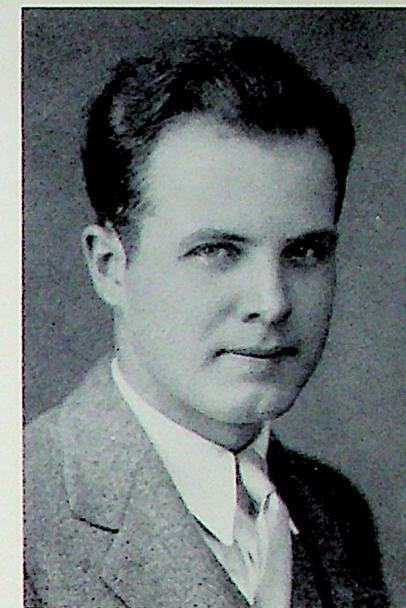


WARREN DIXON
"Dick"
 Civil Engineering
 East Orange High School

Dick is a thoroughly likeable chap, has a mighty nice disposition, and a very pleasant smile. He has an engaging personality, and this, coupled with his willingness to help at any time, has made the trying years of study a very pleasant memory.

Dick has a lot of humor (dry, if you please), and is the possessor of the cutest whistle in Cooper Union. He has taken so much good-natured kidding about his "blondes," that it will be heart-breaking if he falls for a brunette. Warren is one of the charter members of the New Jersey Expeditionary Force to Cooper, and is also one of the Four Musketeers.

His hobby is composing humorous song titles. There are better words than humorous, but we aren't permitted to use them.



HUGH F. GAYNOR
"Hugh"
 Mechanical Engineering
 Harlem Evening High School
 A. S. M. E.

Gaynor is one of those fellows who doesn't say much, does less, and doesn't think at all. He plaintively says that after drafting for a vocation, sleeping as an avocation, going to Cooper for some yet unfathomed reason, and traveling to and from Harlem through necessity, there isn't any time left to think of wanting to think.

His one ambition, for which he is striving night and day, to say nothing of his spare time, is to graduate from Cooper Union.





ERNEST GERLING
"Cap'n"

Mechanical Engineering

Washington Heights Evening High School

A. S. M. E.

Cap'n Gerling is representative of the fine type of Cooper Student. He is a clean-cut young man, of ready wit and always in excellent humor. His jolly nature and friendly manner make him a very interesting personality.

Cap'n is insistent on becoming an engineer, and cannot understand why Einstein's theories are not included with the studies for the junior year.

His pet mania is the derivation of the equation for Newton's Law of cooling. If this derivation is not requested on an exam, it doesn't worry him, he derives it anyway.

Gerling is an interesting conversationalist, and can discuss either a very serious subject or a humorous one.

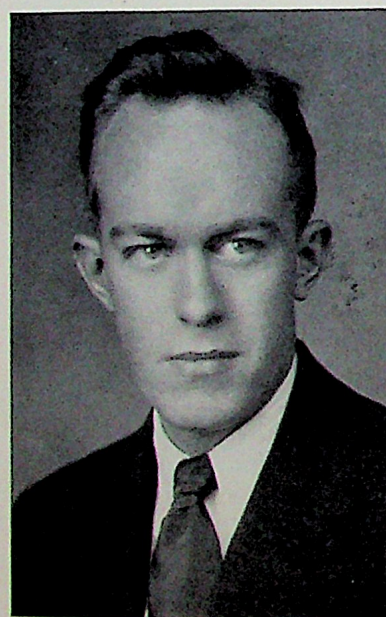
KNUTE GIGSTAD

"Ken"

Civil Engineering

Columbia University

A. S. C. E.



After four years of association with "Ken" we feel certain that in him are centered all the traits required for the making of an excellent engineer. Not only does he make us, his fellow students, feel like morons by the ease with which he solves the problems at hand, while we wrack our brains over the same, but he also astounds us by having time to delve into advanced subjects. He attempts to assist those of us who are in a fog now and then, and his willingness to laugh at our poorly told stories and idiotic jokes makes "Ken" a well-liked fellow.

We expect in time to see you doing great things "Ken," and our heartiest wishes for your success will follow you in all of your endeavors.

WILLIAM GILLIM
"Bill"

Mechanical Engineering

Leonia High School

A. S. M. E.



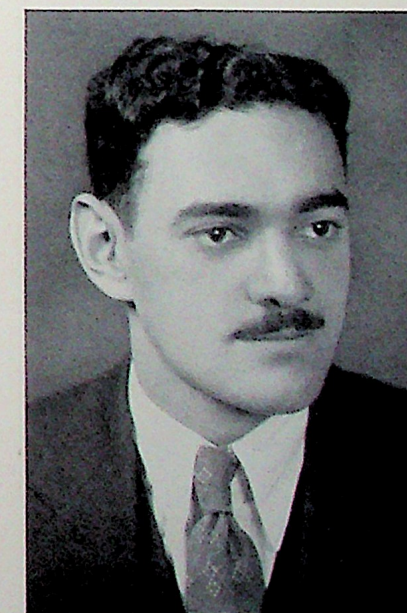
This is the young man who startled the faculty of Leonia High School by getting up in class and explaining where Einstein was wrong in his theory of relativity. After that feat, the faculty decided that Cooper was the only place for such a great mind. He has two strong hobbies—foreign motor cars and motor launches—but he compromised and bought a Model "T" Ford. Has several antipathies, among them midterm exams. and lab. reports. He is employed by the Standard Oil of New Jersey, and can give offhand the properties and qualities of any gasoline refined. Thinks, like all of us, that school would be a great success if we didn't have to study so much.

ARTHUR P. GLUCK
"Art"

Mechanical Engineering

Theodore Roosevelt High School

A. S. M. E.

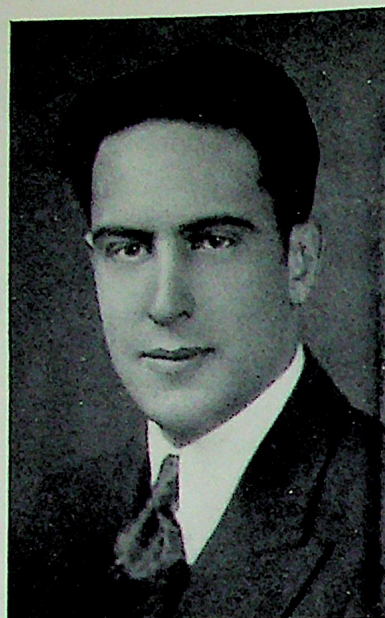


One October night several years ago a hilarious noise was heard in the halls of the foundation building. Alas! It was Art announcing his arrival at Cooper Union.

Hailing from the Bronx, he brought some of the "air" in that part of the City with him. I'll say it's "hot."

Still Art has high ideals, and if it hadn't been for calculus, he says he would have really enjoyed all the hours spent within Cooper's portals.

His studies fit in somewhere in his social life outside of school, although it is a close fit. He is full of all kinds of ideas, some good, some bad, and some indifferent.



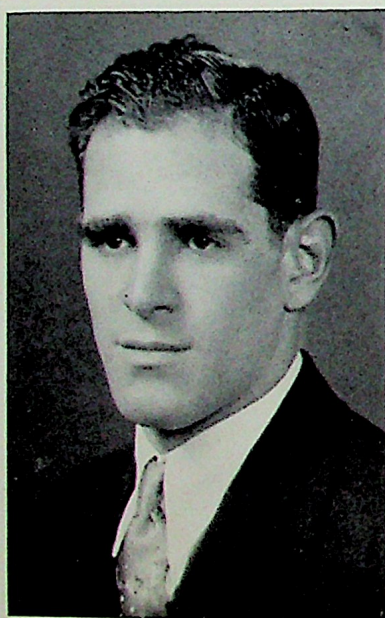
JOSEPH GOMEZ
"Joe"

Civil Engineering
Grangers Institute

From beyond the Hudson (New Jersey) comes a clear-thinking, cheerful young chap, with a disposition as sunny as the Land of his Ancestors. Joe Gomez, as he is known to his friends at Cooper, is a willing, tireless worker, interested in his course and inspired to attain those ideals such as only the Engineering Profession can boast. He takes great delight, while concentrating on some deep subject, in humming or making peculiar noises, and is also addicted to a habit of tapping on the blackboard during a recitation.

Joe's chief hobby is doing the boulevards of New Jersey in a well-worn Cherry.

In Winter or Summer he is without hat allowing the wind to blow a magnificent crop of black hair into a condition somewhat resembling that of an orchestra leader's.



ISIDORE S. GROSSMAN
"Izzy"

Civil Engineering
Hebrew Technical Institute

A. S. C. E.; A. S. T. M.; Wrestling Team, '27, '28, '29, Mgr., '29, '30.

Everybodys has seen this fellow in the halls of Cooper with that assured air born of long familiarity. This is only his eighth year of attendance.

Those Bronxites who will use the new Concourse Subway may not think so well of him, especially during rush hours, but these Ex-Manhattanites are known for their ingratitude. That he will some day be a big figure (not in dimensions) in Municipal Transit Engineering is assured, even now he is on his way.

There are no class functions that this fellow misses; not even the depositing of the Class Treasury in the Bank of U. S. turns him against the class activities.



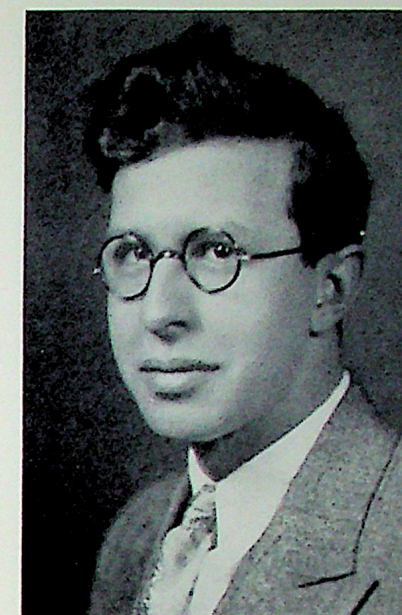
ROBERT GUILMETTE
"Gil"

Civil Engineering
A. S. C. E.

The big transit-man from the B. & M. Transit Company. He gets free rides on the B. M. T., but that does not take him way out to his home in the bootleg part of the world called Elizabeth, N. J. WE DO NOT HOLD THAT AGAINST HIM.

"All those absent stand up," is one of Gil's quick remarks. Thanks to him and his ready smile we all feel in a better mood, especially when we try to clear up the mysteries of Hydraulics.

In surveying you will find him in the back of the room dreaming of some sweet little thing who is all alone in Elizabeth. He is then most pleasantly—for us—disturbed by Mr. Roth to give a talk on surveying in all its branches. If you hear him once you will never attend another show.



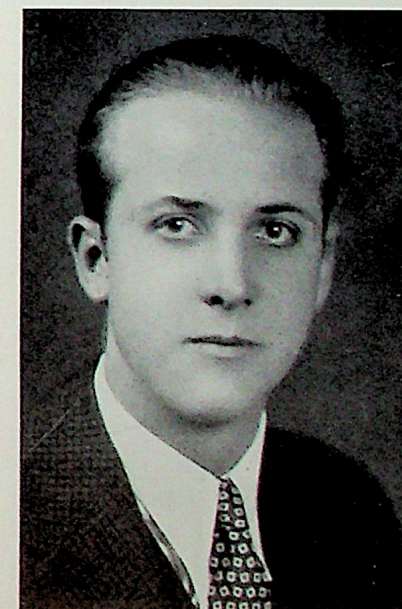
ROBERT GUMMERSON
"Bob"

Civil Engineering
Carlsham High School
A. S. C. E.

"The wise are silent," is a proverb that contains in four words a wealth of meaning. To some, silence implies a shy or reticent nature. To others it has a meaning more eloquent than a world of words could express. It stamps the man who has the sterling quality as a thinker; one who has ideas that penetrate far below the veneer of book knowledge.

We admire his courage and self-confidence to leave his native hearth and venture into a foreign land alone, where a strange tongue is spoken.

Initiative and resource have gained him a position of respect in the minds of his fellow students. It is our privilege to know him and call him our friend.



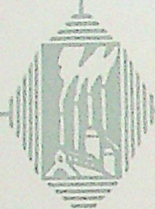


HENRY HERTZLICH
"Hen"

Mechanical Engineering
C. C. N. Y.
A. S. M. E.

What little is known about Henry is gathered from observation. He exhibits considerable assiduity in the pursuit of his studies. But because of his reticent nature, he has not gained the recognition which is his just due. The willingness with which he lends himself to the aid of less fortunate students on difficult problems puts the "Prof's" to shame. He has a mania for making telephone calls, and one for hand shaking.

In the last analysis he is a gentleman, a scholar and a good judge of feminine comeliness.

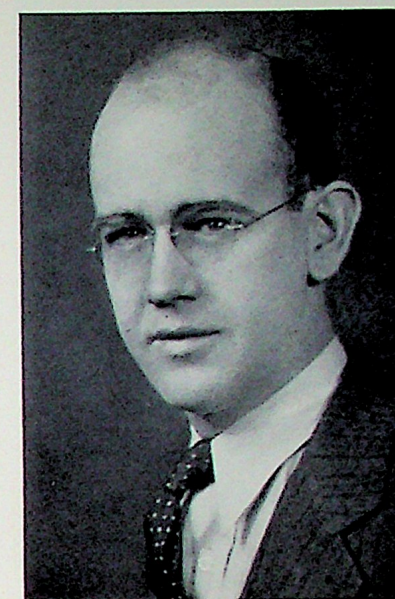


HENRY HILKENE
"Spooks"

Mechanical Engineering
A. S. M. E.

Known among our fellow students for his sunny disposition, good nature and wealth of common sense, Henry is a fellow whose friendship is highly prized. Those of us who know him well feel that our knowing him has been most fortunate, for we have been cheered up, when we needed it most, by his optimism. To have been in his company is to have felt the warmth of the sun's rays, no matter how dark things looked.

Henry is an unmerciful kidder. This is particularly hard to understand, when you remember that people in glass houses shouldn't. . . His hobby is piloting a Model "A" Ford, at break-neck speed, thru two-foot spaces in New Jersey traffic. We don't know why Henry isn't studying aviation.



CECIL R. HORNBY
"Cecil"

Mechanical Engineering
Dickenson High School
A. S. M. E.

As if it were not enough for a married man to go to Cooper Union, imagine, in addition, being a Westinghouse statistical engineer and living in New Jersey. Yep! That's Hornby. Though he doesn't look it very much, he says he feels fairly happy. If it weren't for the fact that Hornby is a hard worker, in fact a paragon of industry, he couldn't do what he does or get where he is.



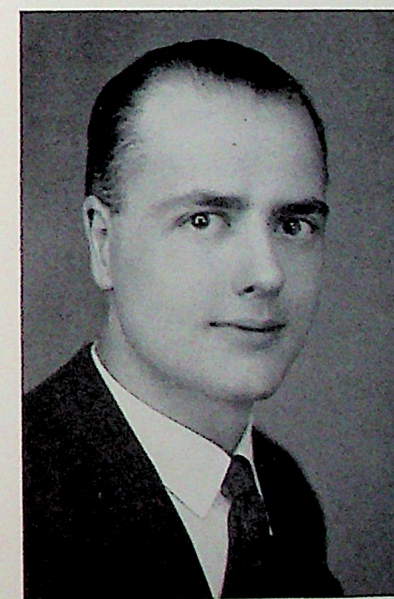
RONALD HOTALING
"Hotaling"

Mechanical Engineering
A. S. M. E.

"But time means naught to him."

Hotaling is one of the pioneers of the endurance contest at Cooper Union. The only persons now in the college who have been there longer than our good friend, Hotaling, are the faculty themselves. Ronnie has never had much difficulty with his studies, nevertheless, while he does not believe one should "Put off till tomorrow what he can do today," he has modified this old adage slightly, for his motto is: "Why do a thing in one year when the same thing can be done in two?"

However, perhaps, we are giving you a wrong idea of Hotaling. We hope not, for he is one of the best-liked men in the class, as well as one of its best engineers.





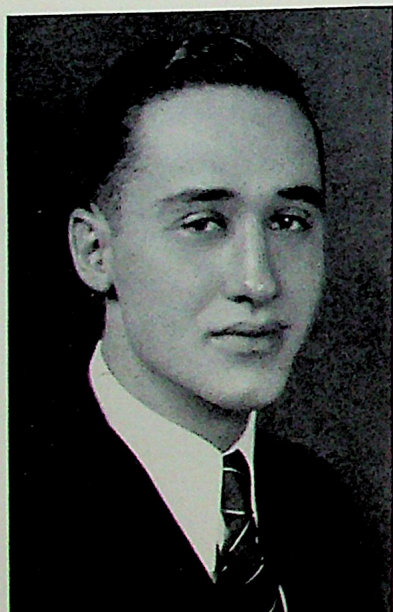
JOHN T. JACKMAN, JR.
"Jack"

Mechanical Engineering
Nutley High School

A. S. M. E.; C. U. N. S. C., '31; Class Pres., '31; Class Sec'y, '30; Math Club, Vice-Pres., '31.

In Jack Jackman we have the boast of the M. E. Juniors, and in evidence of this Jack is our class president for this, the most eventful year of our class history. Although he hails from Nutley, there is nothing nutty about Jack. Excelling in scholarship, especially in mathematics, he was elected vice-president of the Math Club and has won many friends by his willingness to lend a helping hand to his classmates. Jack's record in class activities speaks well of his energy, and reveals the confidence of those who know him.

His smile and cheery "Hello son" brightens many an evening. Here's to Jack, may he lose no more of that fuzz he uses for hair.



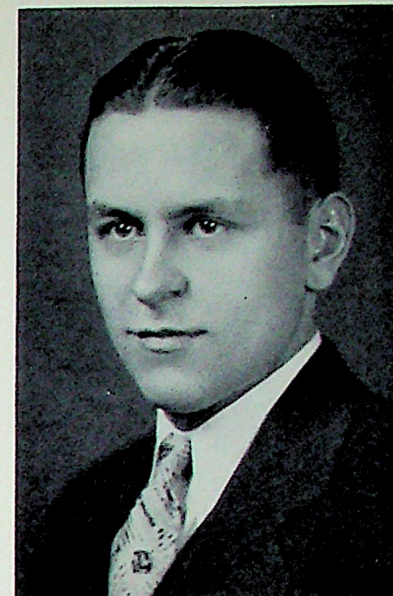
EDWARD JELLINEK
"Jelly"

Civil Engineering
N. Y. U.

Ed is a very good-natured chap whose lot seems to be taking all manner of kidding from the other three Musketeers. This takes the form of certain veiled (?) questions concerning the time of departure from a residence in South Orange. There are also some remarks concerning a brief-case, which is handled with a degree of super-carefulness. We wonder where it comes from!

Ed's smile is one of the sunniest, reflecting his charming disposition and irrepressible good humor, all of which have done their bit in lessening the labor of obtaining an education.

Ed's hobby seems to be trying to catch the 12.15 A. M. bus from South Orange.



EMIL JOHNSON
"Emil"

Civil Engineering
Fordham High School

A. S. C. E., A. S. T. M.

JOHNSON, he hails from the wilds of the "Bronx." He went to Fordham High, but they could not teach him enough. To be a Civil Engineer is why he came to Cooper Union. You could not persuade him to take the subway, somehow he does not trust that means of transportation, for he always uses the "L" and he is seen dashing up Third Avenue as soon as he gets out of school.

He is a man of few words, but that is the sign of an ardent scholar, and with his ambition he is sure to go far in the world. We all wish him good luck.



JOHN GORDON KEARNEY
"Op"

Mechanical Engineering
Stuyvesant High School

A. S. M. E.; Class Treas., '28, '31; Newman Club.

"Does he view the world as a vale of tears?"
"Ah, reverend sir, not he."

Gordon is one of the best-natured men we know. He is always smiling (even during and after exams) and we can't recall ever having seen him peeved. He has been class treasurer twice, and it was due to his strenuous efforts that the class treasury has grown to its present proportions, although it was through no fault of his that most of the class funds are now safely (?) locked in the vaults of the Bank of U. S.





WILLIAM KIELBLOCK
"Bill"

Mechanical Engineering
Mechanics Institute
A. S. M. E.

A shining example of an engineer in the true sense of the word. Precision personified, and endowed with perseverance, patience, and not too much ambition, his most interesting personality and amiable nature have made friends numerous and enemies none. A man of steel tempered by two and a half years of battle on the fields of Germany and France, has many interesting stories to tell, especially when told with that keen sense of humor, which is his.



HYMAN KOSOW
"Hymie"

Civil Engineering

Unlike John D. Rockefeller, our Hymie works for a living, whether or not honestly, we can not say. After work he goes Coopering in search of an education. To be a big Civil Engineer is his aim in life.

He is ambitious, and his attendance to class is punctual. We know that some day we will go to him for a job as axeman when he is a Chief Engineer.



JACQUES LAITMAN
"Jack"

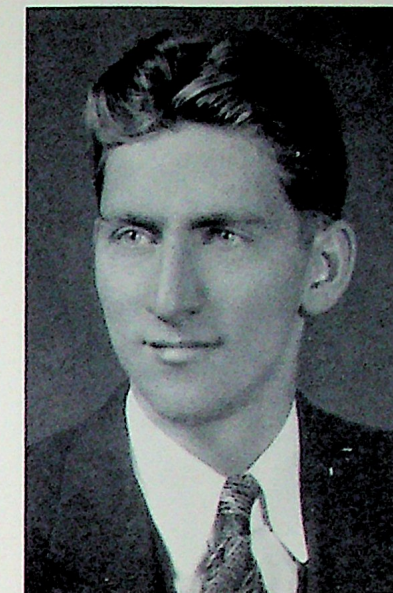
Mechanical Engineering
Brooklyn Evening High School

A. S. M. E.; Handball Team, '28, '29, '30, '31.

In Jacques the two dissimilar qualities of industry and fun are combined in such proportions as to produce one of the most interesting personalities in the M. E. class. His irrepressible high spirits are constantly effervescing in some prank to lighten the night's work.

Hailing from Paris, Jack brings to Cooper his native taste for fashion, and is the only engineer, past or present, to wear red ties with suspenders to match.

To top it all, Jacques is a most willing worker in all the activities of the class and school, and is a fine example of Cooper Man.

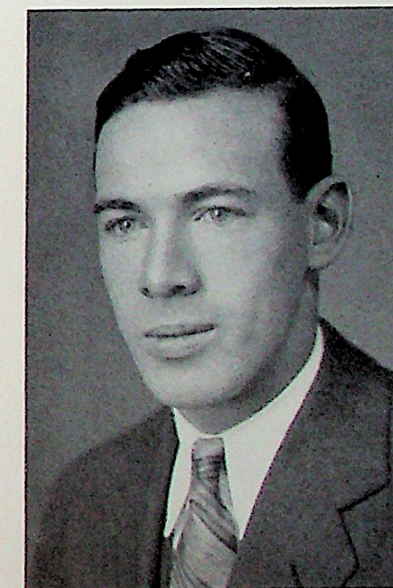


RAYMOND LEARY
"Ray"

Mechanical Engineering
De Witt Clinton High School

Class Vice-Pres., '29; Junior Prom Comm., '31; Handball Team, '28, '29, '30, '31, Mgr., '30; Newman Club.

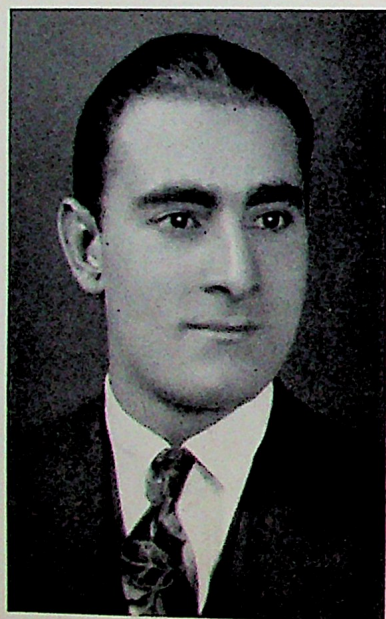
Straight from Greenwich Village comes this rare specimen of humanity. A true son of Erin with a grin from ear to ear that would make the Holland Tunnel look like minus infinity. Very wild and vicious; must be handled with extreme care; melting point, a woman's smile; boiling point, an insult to the Irish; always approaches everything with that hell-bent for election attitude and those Russian gestures; has disgusting habit of chewing corners off match boxes; that's Raymond (Ray) J. Leary (not Leery) the best-natured and most jovial of all the men in Cooper Union, barring none. All who know Ray will corroborate this last statement.





CHARLES LUFFMAN
"Charley"
Σ A II
Mechanical Engineering
A. S. M. E.

In the years Charley has been in school he has shown himself to be a good fellow, always obliging and ready with a smile. Starting in the Electrical Course, Charlie decided, after a couple of years, that he could do bigger and better things as a Mechanical Engineer. Therefore, the third year at Cooper found him diligently studying his new course and quickly making friends with his new classmates.



JAMES MACRI
"Mac"
Civil Engineering

A. S. C. E., A. S. T. M. Basketball, '26.

Mac is one of our most prominent future bridge builders. Helping the Port Authority to connect two foreign territories, viz, New Jersey and Staten Island, is at present occupying his daytime hours. This is but the start. We have no doubt that shortly he will be building them himself.

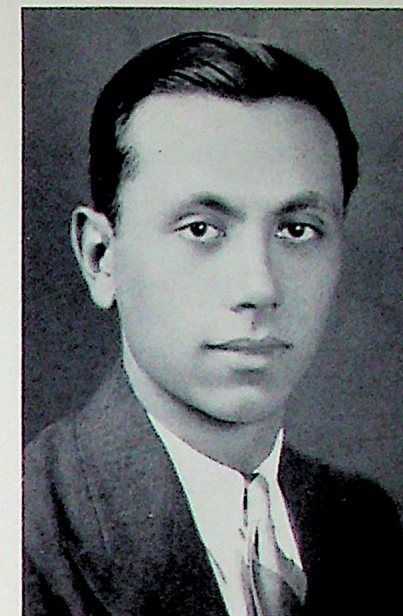
Though he doesn't talk much about the femmes, we expect him to bring a stunner to see him receive his degree. This is based on the fact that, New Jersey, the place he calls his home, is noted for its corn-fed beauties.

PHILIP MARTORANO
"Martie"
Mechanical Engineering
Newtown High School
A. S. M. E.

Martie comes across the river from Long Island, the land of the "Sunrise Trail" where Indians once flourished. Recently, however, sewer construction flourished and millionaires were self-made.

However, he is a rather quiet fellow of a jovial nature, who laughs at hard work, and plugs at it until it's done, finding satisfaction in accomplishment. He is sincere in his undertakings and is well liked because of his willingness to lend a helping hand.

Sometimes we wonder whether there is anything else besides studying that takes up his leisure hours. Oh! Yes, just mention blondes and he's all ears; still brunettes admire brunettes. Who knows? Indifferent? Maybe.



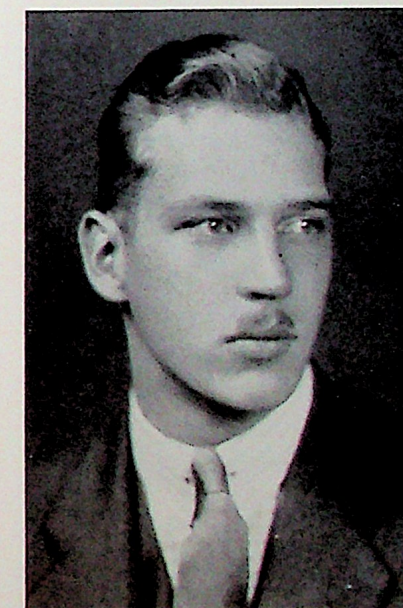
CLARENCE MATTSON
"Clary"

Mechanical Engineering

A. S. M. E.; Wrestling, '26; Football, '27, '28.

"Greater love for his bed has no man." Clary is one of the mighty sons of Morpheus. He sleeps any time, any place, even at Cooper. The benches are hard, extremely hard, but as the minstrels sang at the court of King Arthur, "What does it matter."

Aside from his undying devotion to the Sandman, Clary is bashful, which, in combination with his size, seems incongruous (but such is nature). All in all, he is a regular fellow, and is well liked by those who know him.

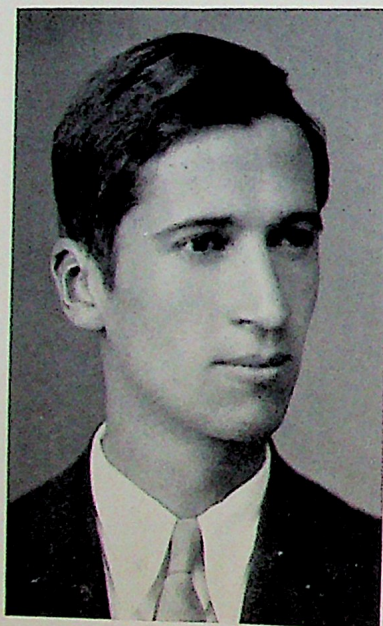




ANTHONY MELOMO
"Tony"
Mechanical Engineering
A. S. M. E.

Tony seems to have evolved a very good, liberal and extremely elastic philosophy of life. Understand, of course, he does not roam through corridors or classrooms with a hungry look in his eyes seeking victims whose ears he may borrow (not literally) as philosophers are wont to do. Probably he does not realize the admiration with which his actions are viewed.

Personally Tony is neither bashful nor precocious. He is very pleasant and has a line on which one could hang the complete wet-wash of New York City.



LOUIS MOLNER
"Louis"
Civil Engineering

It was just three years ago that a boy came to Cooper Union to find out what it was all about. This boy was none other than our own "Louie" who now has grown to more sizeable proportions.

Gentleman and scholar; always ready to share information with his classmates, does not fully describe this Cooperite.

His favorite hobby is nodding at a lecture, thereby confirming the statements which relieves the professor considerably.

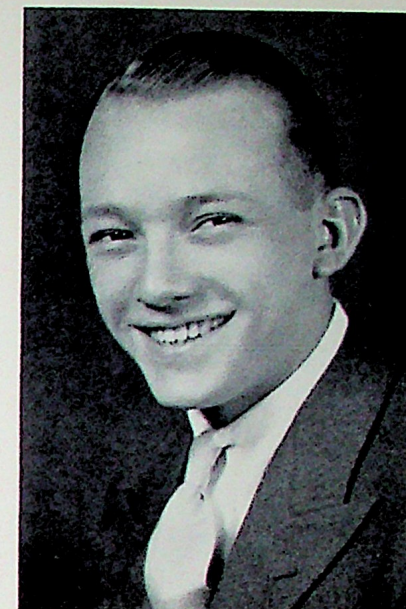


JEREMIAH A. MUSILEK
"Jerry"
Ω Δ Φ
Civil Engineering
Mechanics Institute

A. S. C. E.; Football, '29, '30; Football Manager, '30; Class Treas., '29; Class Pres., '30; C. U. N. S. C., Treas., '30; Annual Comm., '30; Business Manager '31 Cable; Gold "C" Award; Ex Post Facto, '32.

Jerry hails from Long Island, but don't hold that against him. As a football favorite he used to snatch the ball out of the air like a baseball hawk and then pick his openings through the opposition to cross the goal line. He scored many a touchdown which made the spectators rise with amazement. He now continues picking out holes when he drives his "Hup" through traffic.

Jerry not only monopolizes his time on the gridiron, but you can notice him at any school or frat dance. Nearly all of the girls want to dance with him. Do you wonder?



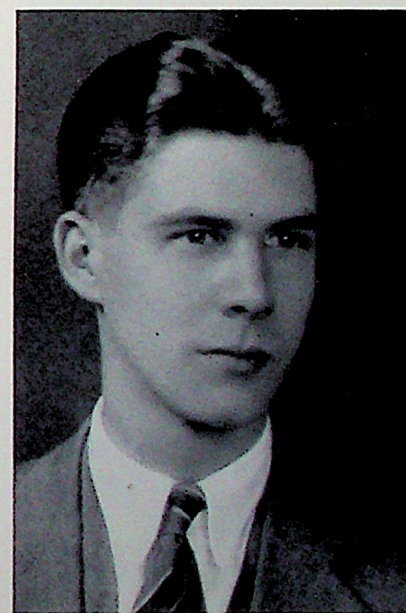
EDGAR H. SCHMIDT
"Schmitty"
Mechanical Engineering
A. S. M. E.

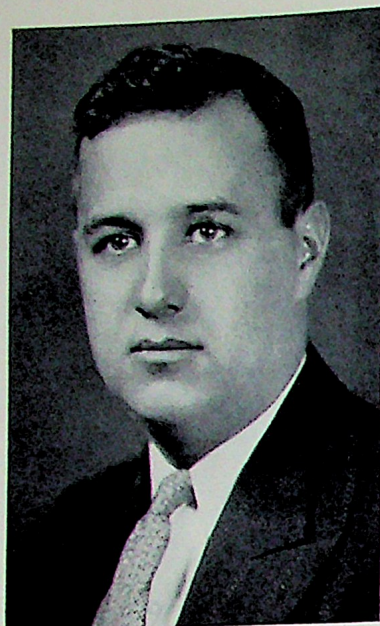
When examinations come and we are hazy on the subject, we sit near Schmitty, put our minds in a receptive mood and wait for old E. H. S. to get started. The intellectual emanations from his massive brain have helped us out of many an embarrassing situation.

When you argue with him, no matter if you think you're right, you are wrong.

He is also an excellent musician. When he plays that organ at twilight you can hear the angels sing. He can rattle off Wagner and Liszt with as great a facility as he wades through his work.

Schmitty; engineer and musician extraordinary, an unusually rare combination; and a likeable old cuss.





JOSEPH H. SCHNITZBAUER

"Schnitzie"

Civil Engineering

Washington Irving Evening High School
Mechanics Institute

A. S. C. E.; A. S. T. M.; Ass't Class Treas., '31.

About five years ago there came with the constant tide of immigrants one Joseph Schnitzbauer. It was not long before he found his way to Cooper Union's portals and formed the habit of sleeping in the comfortable chairs. It took his classmates but a short time to find that he was the original "Flying Dutchman." One look at his graceful figure (?) and one will question no longer.

In all seriousness, Schnitzie is one of the best students in the class and as practical as any. In the time he has been in this country he has mastered our language and can teach it to some of us.



THEODORE SMITH

"Smitty"

Σ Δ Π

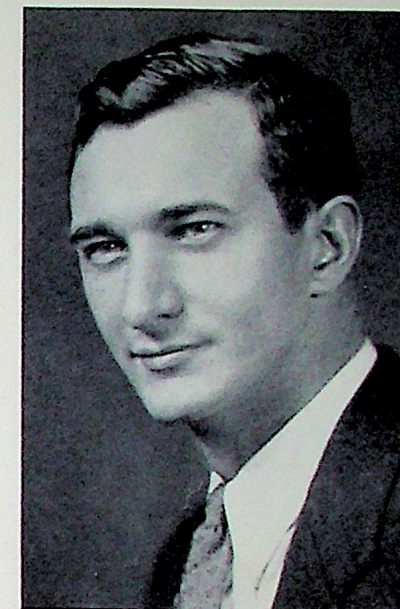
Mechanical Engineering

Brooklyn Technical High School

A. S. M. E.



Smitty hailed from Brooklyn Tech, but that isn't any credit for Brooklyn Tech. The faculty of the school finally got wise to him and put him out before he became one of the school's permanent fixtures. He finally graduated in '27 and then migrated across the river to Cooper Union. He's still at Cooper, for how long? Well, no doubt he likes the school so well he'll stay a while longer. They haven't got wise to him yet. Well, seriously speaking, Smitty isn't as bad as we attempted to picture him. He's the kind that doesn't say much, but thinks a lot. Ever since some fair one told him he looked like William Haines.



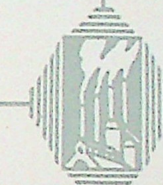
FRANK R. SPINKA

"Frank"

Civil Engineering

Frank is not, by circumstances, a great general or president, but is quite well satisfied to join with the rest of us as another student of old Cooper Union.

He is a quiet sort of a chap, quiet enough to make us think he must be married. He is, however, in all seriousness, a "jolly good fellow" and we all wish him luck in the field of Engineering.



FRED C. STEIN, JR.

"Fritz"

Ω Δ Φ

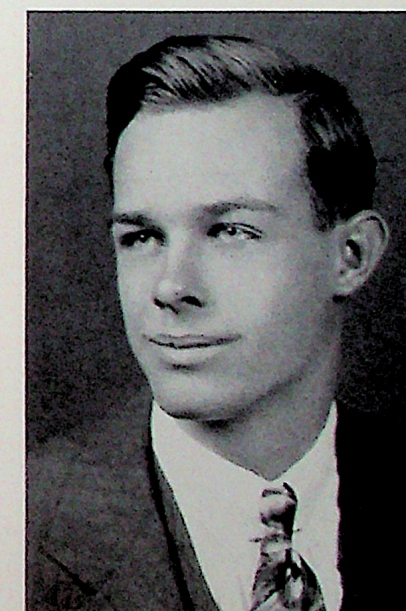
Civil Engineering

Stuyvesant High School

A. S. C. E.; Copy Editor, '31 Cable; Vice-Pres., '31; Junior Prom Comm., '31; Gold "C" Award; Ex Post Facto, '32.

Fritz, Christopher, the gentleman whose handsome countenance is featured alongside, is just another one of Cooper's promising embryo engineers. His domicile is in the wide open spaces of the Bronx, whence he comes forth every night to more civilized parts.

During the earlier years of his travels to Cooper, Fritz was a bashful sort of a fellow. But he lost his bashfulness completely, and Fritz is now spending his week-ends spreading sunshine into the lives of the fairer sex, among which he has developed a wide acquaintance.





FRANK SVUGER
"Pins"

Mechanical Engineering

New York Evening High School

A. S. M. E., Treas., '31; Football, '23, '24; Handball, '28.

Say there! Have you seen the fellow with a shadow on his upper lip? Yes, it has ripened to a football team now, eleven on each side. You can find him hiding it behind his hydraulics book in the students' room. There he is, Frank!

Frank is an industrious fellow with all the qualifications of a good engineer. At present he is designing burners for the Eskimos, using ice as a fuel. However, the services of a man like Frank are in demand at any power plant.

He is a congenial fellow, ambitious, and with set ideas (thanks to the "missus" and —). Lots of luck, Frank. Keep that shadow well trimmed.

GEORGE TUSCHER
"George"

Ω Δ Φ

Civil Engineering

Stuyvesant High School

A. S. C. E., A. S. T. M.; Advertising Manager, '31 Cable; Gold "C" Award; Ex Post Facto, '32.

Here's George, as neat as ever and as usual, for George is one of the handsomest models and a fine modern Adonis. When this is said of a fellow student by his classmates, enough is said, even though he hails from that place "The Bronx."

But George's fine points go a bit further than that. You can see him at all the Frat. and Cooper dances elbowing his way around, and believe it or not, he has his fine points. Maybe you have felt them.



HARRY WAKSMAN
"Harry"

Civil Engineering

New York High School

Harry, the gentleman who's picture is alongside is a great guy. He comes from Russia (fortunately for Russia), and he brought with him an unsatiable thirst for knowledge and a tremendous willpower. When other fellows are out having a good time, he sits home and studies. We do not know what and why, but he does. And there is another thing which makes him unique among the students, he does not drink, dunk, play cards or travel to Niagara Falls with girls.

We really don't know how he acquired it, but it is the supposition of his classmates that his hair turned from black to gray trying to figure the center of gravity of a doughnut by triple intergration.



HUGH C. WILSON
"Hughie"

Civil Engineering

A. S. C. E., A. S. T. M.

Take another glance at him. His first name is "Hugh," but who think that such a soft, loving handle would be bestowed on such a hard-hearted youth.

He is the proud possessor of an augmented superiority complex. When a doubting Prof. asks him a question upon any subject whatsoever, it is with extreme indifference that "Hughie" rises. Of course, the answer is so well known by him that a sketchy outline is all that he deems necessary to furnish the Prof.



Electrical Engineering



President
RALPH W. WINDRUM

Vice-President
MALACHY KELLY

Secretary
FRED RICHTER

Treasurer
WILLIAM SCHOELL

JUNIOR! We have at last come to the stage when we can pause and dreamily reminisce over the four years of our college life. We started an incongruous group of about 120 young fellows, full of zest and ambition. Our main idea was to get our covered B. S., in electrical engineering, and then to set the world on fire with our learning.

Thus we have gone thru four years, each year the grim scythe of fate has relentlessly cut down the roster of the original class, until there remain but one-fifth of the original number. Going thru the same strenuous grind year after year has unified us, and friendships have been founded which will stand the test of time.

We can point with pride to our record of service to the school which is so well represented by this CABLE on which our most active men have worked diligently, to leave as a symbol of our efforts to forward the fame of Cooper. We will never forget the Junior Prom. with our charming companions, beautiful music, and the general feeling of gaiety midst the splendor of the Pan-Hellenic House. Nor can our class dinners and theatre parties after the last exams, with their hilarious abandon to joy, and good fellowship, be easily forgotten.

We leave the sincere and humble hope that we have and will prove ourselves worthy of the highest hopes of the founder and all those who have devoted themselves to Cooper, our Alma Mater.

THE HISTORIAN



RUDOLPH BEHNKEN

"Rudy"

Electrical Engineering
Union High School

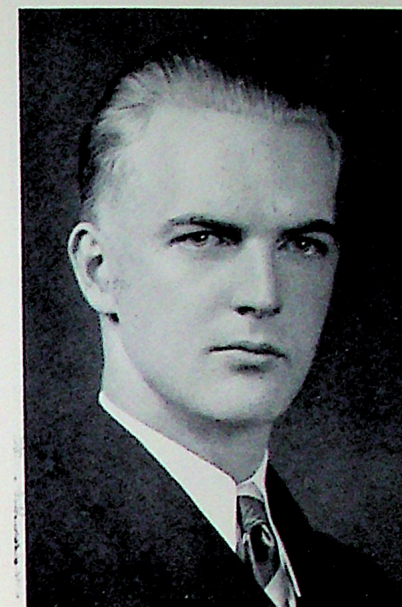
A. I. E. E.; Ass't Editor Pioneer, '27.

His head might have set on the shoulders of one of Lief Ericson's Vikings, but his reincarnation in this age and generation is the prosaic form of an embryo engineer.

When Rudy,—not that one girls,—besides he's a benedict, stands up, all is still, the men hunch forward on their chairs and all ears are attuned as his sonorous tones roll forth, bringing up or explaining some intricate point of the subject which had escaped the majority of us.

One doesn't associate wild whoopee parties with Rudy; besides, when one is the father of such a beautiful little girl as he has, parties have no attraction.

As a keen student and a good fellow, Behnken is one who is bound to get ahead.



JACK BELZER

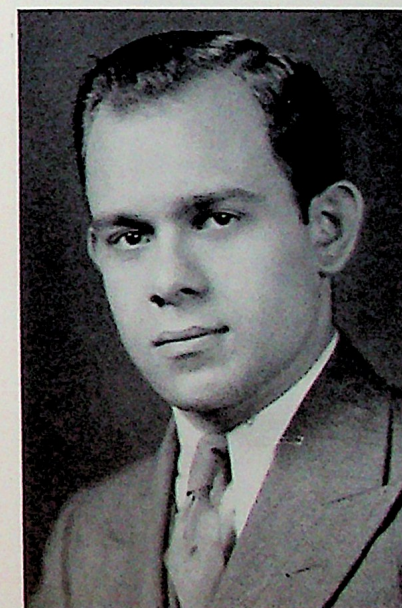
"Jack"

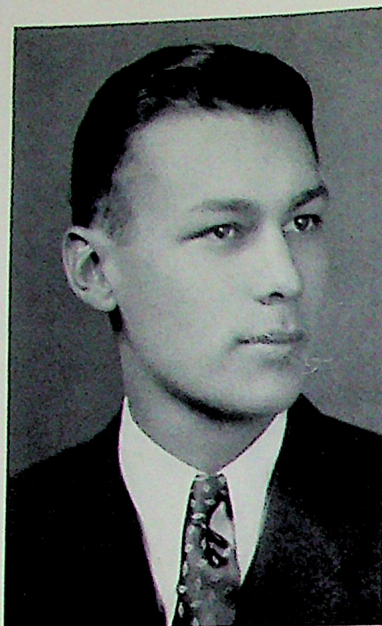
Electrical Engineering
Brooklyn Evening High School

A. I. E. E.

Jack is a "Shoe cutting" engineer for a large retail firm catering to the theatrical trade. In order to apply his technical training to the best advantage, he sought a position with one of the large public utility corporations. When informed of the salary paid embryo engineers in their particular field he took a drink of spirits or aromatic ammonia, remembered the old adage, "Shoemaker stick to your last," and decided to stick with his mercantile establishment until after his graduation.

He offers many valuable ideas to the class organization and is never afraid to offer his useless opinions.





ERNEST BILLMAN

"Ernie"

Electrical Engineering

Rutgers University

A. I. E. E.

Ernie is one of those fellows you seem to know all about, but when it comes to putting it on paper you find yourself at a loss as to what to say. He is a quiet chap who goes about his own business and seems to have the courage and ambition to follow through. Although he may be quiet in school, at a social function you would probably not recognize the handsome chap who likes to have a good time at a party.

He also has a facility of keeping a secret, as most fellows do not know that Ernie has a wonderful little lady, who thinks quite a good deal of him.



ROBERT J. BRADY

"Bob" $\Phi \Sigma \Omega$

Electrical Engineering

Stevens Tech

Fortunate indeed is the telephone company to have Bob in their employ, and fortunate indeed are we to have Bob in our school.

Soon they will laud him as one of their best engineers, while we will glory in the fact that he graduated from Cooper.

A typical engineer, his pet idiosyncrasy is asking questions. In fact, so ardent has he become that most of his professors are becoming bald from rending their hair.

However, lest he get swell-headed, we must inform him that it is customary to come to Cooper classes on time. But when 9.30 comes he is that home-loving type who must catch the Long Island Railroad.



JAMES A. BROWN

"Brownie"

Electrical Engineering

Saunders Technical High School

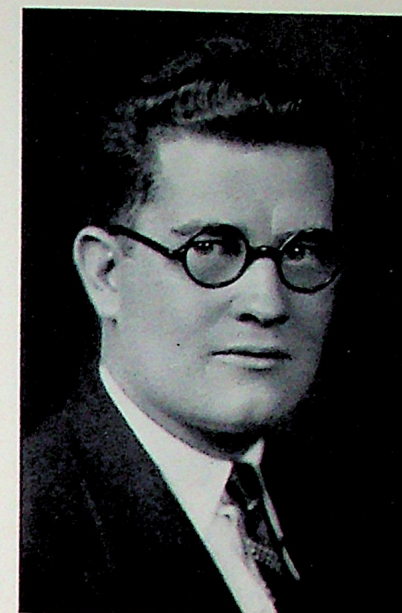
A. I. E. E.

Brownie has always been an enigma, characterized by his pleasant smile, his reticence and his absolute refusal to argue.

The smile, of a superior, condescending sort, was made difficult to fathom, and it was only by the most diligent investigation that it was learned that the cause was a baby girl.

If at times Brownie's reports have lacked consistency, it was small wonder, for who can be coherent when combining the difficulties of studying and pacing the floor with a crying youngster, at one and the same time.

With your happiness and success assured, Brownie, there is little else to wish you, except it be that your daughter inherit that pleasant smile.



PETER VINCENT BRUNCK

"Pete"

Electrical Engineering

Hoboken High School

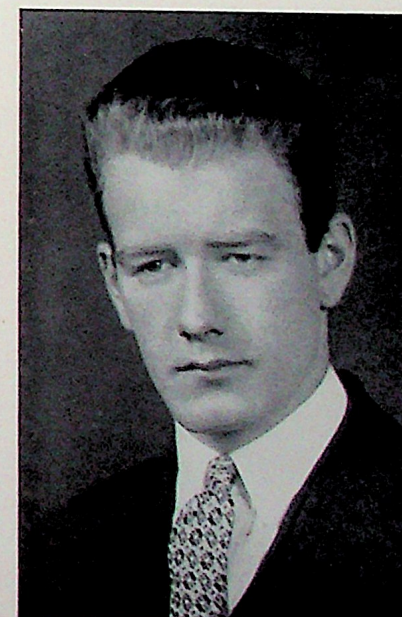
A. I. E. E.

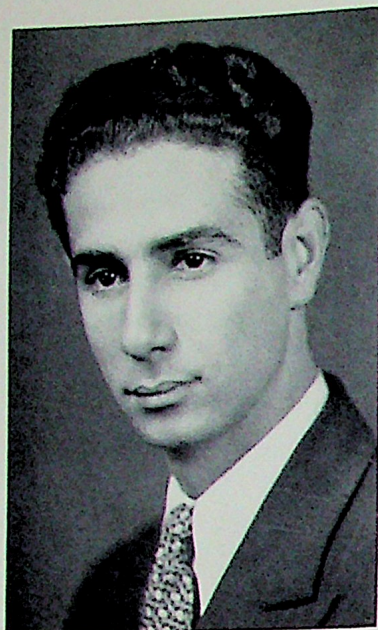
Having his picture in the CABLE is getting to be a habit with Pete. He completed his M. E. course in '28 and returned to continue his studies in the E. E. course.

In the 1927 CABLE "write-up" Pete was described as a week-end reveler. In justice to him at this time the previous write-up should be supplemented. Pete no longer spends Saturdays and Sundays frolicking with wine, women and song. The explanation for this is that his wife won't let him.

One of his hardest tasks is keeping Jim Craig out of taxicabs.

Always willing to help one who desires his assistance and higher intellect, as his fellow students well know, we wish this silent man the breaks he deserves.





THOMAS COBIANCHI

"Cobe"

Electrical Engineering
East Side High School
A. I. E. E.

Thomas is one of our out-of-town boys who hails from the wilds of Paterson, N. J. This is probably one reason why he is such a strong advocate of the "Farm Relief Bill." Although traveling such a distance each day, he still manages to have a few thousand words left for class recitations and general amusements.

Cobe carries the least books of anyone in the class. A small note-book in his pocket, sufficing his needs.

He combines pleasure with school work, and manages to succeed in both with astonishing results.

JAMES A. CRAIG

"Jim"

Electrical Engineering
Hackensack High School
A. I. E. E.



This chap slaves for the Bell Telephone Labs, where he works on apparatus development for the dial telephone system. In other words, he's helping to take the voice with a smile from the voice.

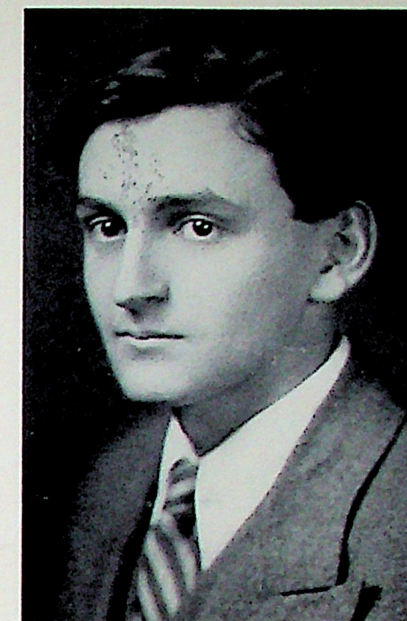
The only unpleasant part of Cooper Union for him is the long trip out to Jersey every night.

During the week-ends, when school work does not press too hard, you'll find him out in Jersey, flying airplanes in an effort to improve his technique, as far as being a pilot is concerned. Aviation constitutes his chief hobby. Women come next, as a hobby. The surprising part of which is that the women usually think so much of him that they go with him.

JOSEPH DAVIS

"Dave"

Electrical Engineering
East Side High School
A. I. E. E.



Dave is one of those little fellows who always seems to apologize for their existence. In the D. C. lab he is always in the way, offering timid resistance to any possible progress the squad could make. He is the official meter reader, but has to be told when to read. On preparation nights he has the unique ability to ask questions. His one redeeming quality is his smile under which he protects himself from all outside influences.

Some day he is expected to become a pre-ambulator engineer under the stern eye of some female known as "the wife."

SAIM FETHI

"Fethi"

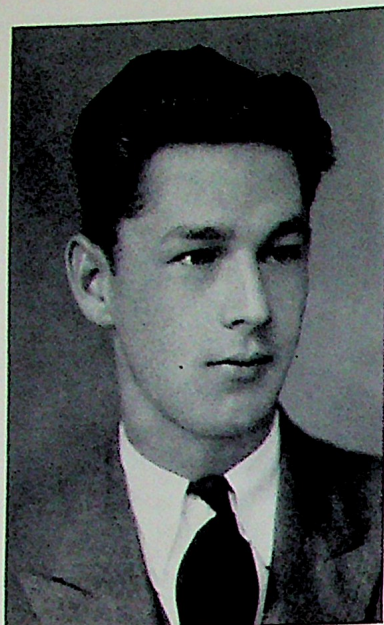
Electrical Engineering
University of Valparaiso



The best time of our life is that spent in school, and for that reason alone Fethi is trying to prolong his school days as long as possible.

Although he is absent-minded and sometimes does forget his own name, he still remembers his elementary school days in Turkey, Asia Minor.

Besides his "book study," he has traveled enough to make the best of Cook's men look like amateur hitch-hikers. He is truly an educated man with the curiosity of a savant. We are trying to find the means to open this treasure and enjoy his world-wide experiences before the wanderlust once more prevails and we lose the old man of the class to a harem in Turkey.



JOSEPH E. FOX
"Joe"

Electrical Engineering
Paterson East Side High School
A. I. E. E.

Joe is one of Cooper's out-of-town boys who aims to make good in New York City in a big way. Fairlawn claims Joe as its native son, and Paterson East Side High is proud to include Joe as one of its graduates. Joe Fox is employed at the Bell Labs, and it is rumored that with the practical experience obtained at the Bell Labs, coupled with the technical training received at Cooper, Joe bids fair to outshine such notables as Edison and Steinmetz.

The class wishes Joe as great a success with the fair sex as the success we are sure he will obtain in the electrical engineering field.



FRANKLIN HAGER
"Noisy"

Electrical Engineering
Brooklyn Technical High School

Here is one who is following in his brother's footsteps—God knows why! Isn't one horrible example in the family enough? He is one of that hatless variety from the barren wastes of the wind-swept Dyker Heights. He is usually in dire need of a hair cut, but in this way he keeps his brain (?) temperature from falling to absolute zero where it would be non-existent.

His two main faults are his jokes and his arguments—the first are terrible, but he always gets a big laugh out of them himself. The second never hold water, and consist of his own obstinate reasons for not doing anything that could help anybody.



PAUL DAVID HOECKE
"Hoke"

Electrical Engineering
Manual Training High School
A. I. E. E.

Here is the name that has worried the teachers for sixteen years. However, what's another year! He is one of those who you know will pass an exam, and as for neatness of work, ask Mr. Young, as a draftsman he has lost his amateur standing, for he works at the board at the Municipal Building.

We knew he took an interest in Chemistry in the 3rd Year, but we think, nevertheless, that Ozone Park (Jamaica) has attractions other than the air. This would explain an occasional dreamy look and slight hesitation before giving a good reply to the instructor.

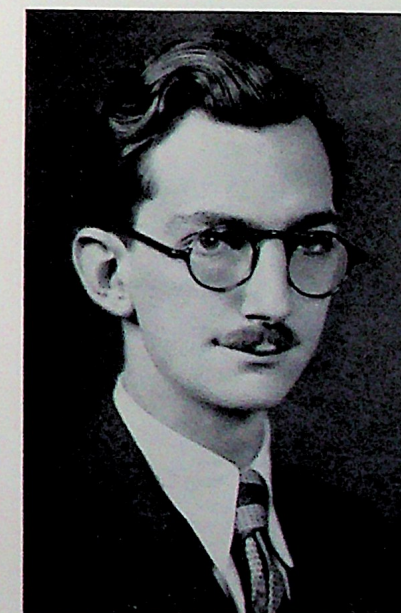
As for the ladies, Hoke and a certain sweet are on fire, and we are expecting the blending in the near future. Best of luck, old man, but we'll mourn our loss.

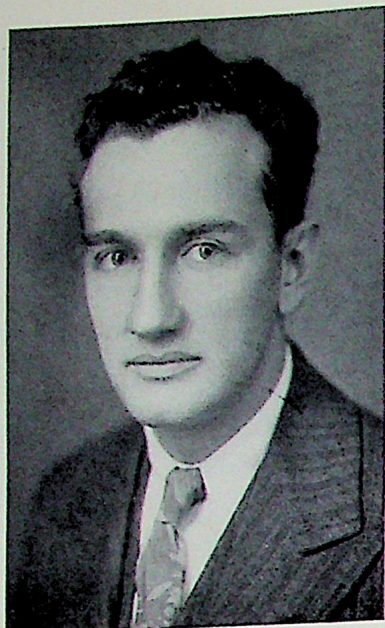


KASKEL KALLMAN
"Kay"

Electrical Engineering
Stuyvesant High School

The stormy petrel of the Pioneer is Kay. During his term of editorship, Kay was able to get the Pioneer out of a journalistic rut in which it had been for many years back. The fact that there is no statement of activities above, does not signify that he has been inactive. Kay's Gold "C" award is indicative of the esteem with which he is held by his fellow classmen. One of his pet idiosyncrasies is that he believes fraternities are almost a necessity to every student; yet he is not a member of any of the brotherhoods. One of Kay's hobbies is railway signaling. It must be the railroad atmosphere and timetable complex that makes him want to record the observations in the laboratory.





THOMAS F. KEARNEY

"Tommy" $\Phi \Sigma \Omega$

Electrical Engineering

Fordham University

A. I. E. E.

Tommy is one of those quiet fellows, so quiet that we didn't even know he was in the class. He demonstrates his abilities in the Lab by taking observations. We really don't know if he's one or two, because every time we look at him we see Brady. He and Brady are the Mutt and Jeff of the class, or the long and short of it, both being silent partners.

Tommy is married, and so dashes out madly at 9.30 every night. He evidently never gets home on time, as he sleeps in the class.

Tommy is the only man who can get his data sheet signed without corrections, and that's a lot.



MALACHY J. KELLY

"Mal"

Electrical Engineering

A. I. E. E.; Class Vice-Pres., '30, '31.

A true son of the auld Sod, though you'd never guess it—that is much.

Being born during an electrical storm, electricity has always had a great attraction for him, and so inevitably he came to the U. S. A. and Cooper Union, where his soft brogue make a song of the driest recitations.

Since he left the old country a large hydro-electric project has been developed, and it is his aim when he graduates to return and show them how to run it after the American fashion.

Naturally he has the keen wit and good humor long associated with the Irish, and his ready laugh livens up any group. Clever, conscientious, courteous, "good people" for any one to know and bound to make the grade.



EDWIN A. KUENZLER

"Ed"

Electrical Engineering

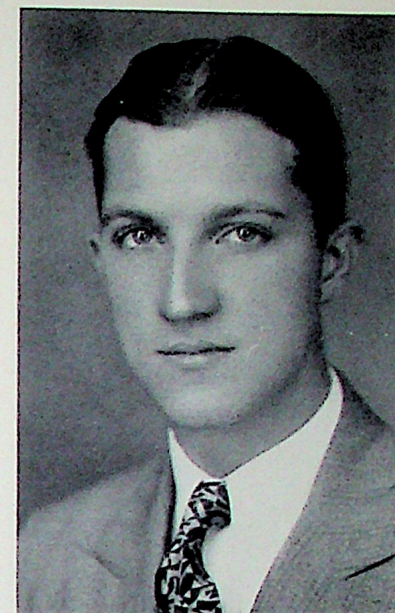
Emerson High School

Class Pres., '28; Class Sec'y., '29.

Fired by the flames of ambition, a smartly dressed wide-awake lad, in his quest for greater knowledge, knocked on the doors of Cooper. His only recommendation was that he had broken the hearts of all the fair maidens at Emerson High.

Today he is one of the most popular and active students we have. His marks attest his scholastic ability, the demand for his presence at social functions is well known, and his executive ability and popularity among his classmates has been often proven.

For four years we have had "Ed" with us, and we can pay no greater tribute than to say that we are proud to have him as a member of our class.



HYMAN LASCHIVER

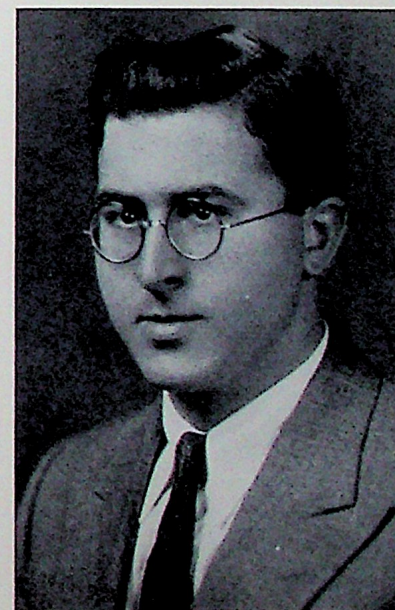
"Hymie"

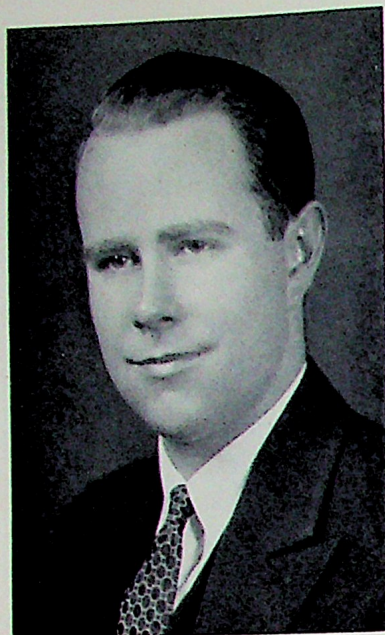
Electrical Engineering

Stuyvesant High School

A. I. E. E.; Sec'y, '31.

Ach! Hymie! What a man! Gets up good and early at 5.30 in the morning so he can loaf longer, and returns to the arms of Morpheus at 7.30 at night (in class). He's the best little switch thrower you will meet in many a day, but that is not all. When he's foreman of the best squad of meter busters in the lab, it's a case of "jump Fritz" for them, and they don't get any liver either. In order to keep body and soul together, Hymie officiates as a production engineer at a radio concern, but how he does the Lord only knows. The reason why he's so popular is that he is the sole guardian of the funds of the student branch of the A. I. E. E.





RAYMOND B. LEWTHWAITE
"Ray"

Electrical Engineering
Hackensack High School
A. I. E. E.

When he sees something that is new to him he isn't satisfied until he knows what it is and how it works. When he knows all about it, it will not work.

Radio is his chief hobby, but he likes to play with alternating current machines a great deal. He is the unofficial foreman of his laboratory group most of the time. Alas! How he suffers! (The foreman is the man held responsible for putting the chairs back.)

He has no use for fancy frills,
Social functions hold no thrills.
But give him a tube, some coils and wire,
And his interest will soon be all afire.



MAURICE E. LOEWEL
"Maurice"

Electrical Engineering
Bay Ridge Evening High School
A. I. E. E.

Evening school has gotten to be a habit with him and to refrain from breaking it, he intends to continue in Brooklyn Poly, if and when he is honorably discharged from Cooper. He expects to do electrical communication work for the Bell System and, who knows, but that some day he may find the ghost of the phantom circuit or lighten the burden of a loaded line. He is firmly convinced that he will always remain a bachelor. He abhors social functions and football, and does not dance, but is really quite athletic as evidenced by his extra-curriculum activities which consist of attending motion picture shows and listening to the radio.



ERNEST S. LUNDIE
"Ernie"

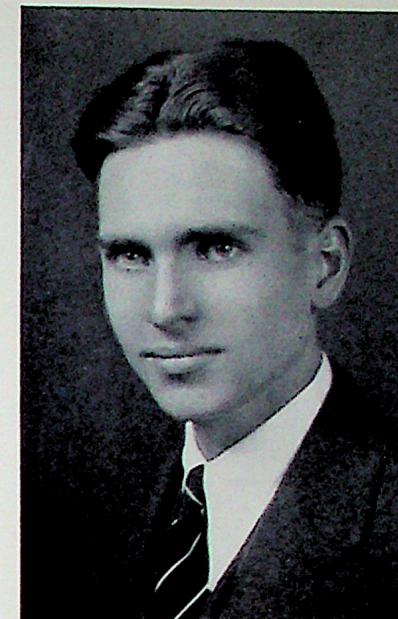
$\Phi \Sigma \Omega$
Electrical Engineering
Townsend Harris Hall

Class Pres., '29, '30; C. U. N. S. C., '29, '30; Editor-in-Chief, '31 Cable; Chairman, Ex Post Facto, '32; Gold "C", '30.

Judging from his haircut you would take him for a genius, but from his actions he is a slave to labor characteristics of those who work on the CABLE.

He is a devotee of the ether, being an ex-ham or "lid." At present he seduces his share of the lucre of the realm from a radio and talking picture lab. His latest endeavor is to send petrol-wagons to the graveyard—so far he has been remarkably successful.

His pet indoor sport is studying under the eyes of a fair damsel,—this accounts for the poetical theme of his generator design.

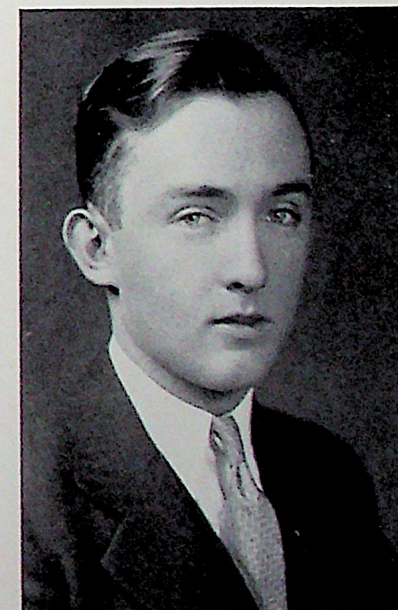


JULIAN McDERMOTT
"Mac"

Electrical Engineering
Evander Childs High School
Class Treas., '30.

Mac hails from that portion of the Bronx known as Woodlawn, the final resting place of all tired engineers, and as Mac says, "Eventually, so why not now." The height of Mac's ambition is to be an inventor, and already has several weird ideas that he would like to work on. He received most of his experience of machinery from working on broken-down flivers. He wouldn't know how to run a new car.

Mac is a serious and diligent student, one of those who will work on a problem and solve it, even if he has to stay with it until Hades freezes over. We predict for him a highly successful career as an engineer and possibly as an inventor.





EMMANUEL NICHOLIDES

"Nick"

Electrical Engineering

Morris High School

A. I. E. E.

Nick once wanted to be an engineer, but after being at Cooper for four years, he changed his mind. He now wants to be rich. We don't know how he's going to get that way, but we wish him luck.

He reads a lot of books that he can't understand and asks the Profs to explain. In this way he can cut any D. C. hour in half.

He's interested in radio and its associated art (not artists). At present he is doing research work for the Sonotone Corp., striving to improve the conditions of the deaf by suitable electro-acoustic devices.

Possibly he intends to supply them to the Cooper students who are victims of a Prof with a weak voice. Philanthropist—we hope.

JOHN PAPP

"Johnny"

Electrical Engineering

Stuyvesant High School

A. I. E. E.

J. B. P. hails from Brooklyn, but is alright otherwise, except when he tries to whistle the "Peanut Vender." Between chasing the elusive muse of differential equations and the desirable femmes in the suburbs, Johannes is quite a busy man.

Papp seems to have the faculty of getting good marks in the exams, with a minimum of effort. The only trouble he seems to find with his school work is the fact that the books are usually wrong, especially the answers to the problems, and he will work out elaborate theories to prove it.



VICTOR PARODI

"Vic"

Electrical Engineering

High School of Commerce

A. I. E. E.

Vic is one of those persons called an extrovert. He not only dreams about things, but goes out and accomplishes them. He is well liked by everybody, and from certain indications, by the opposite sex as well.

His only weakness is "ONWEGO", a good old reliable boat in which he spends his idle hours. When is the class invited, Vic? We are pretty sure to get about 40 or so couples together some day for a nice sail. The class fears the time will come when Mr. Young and Vic get to talking boats, leaving the class without a prof.

HARRY PERLSTEIN

"Harry"

Electrical Engineering

Hebrew Technical Institute

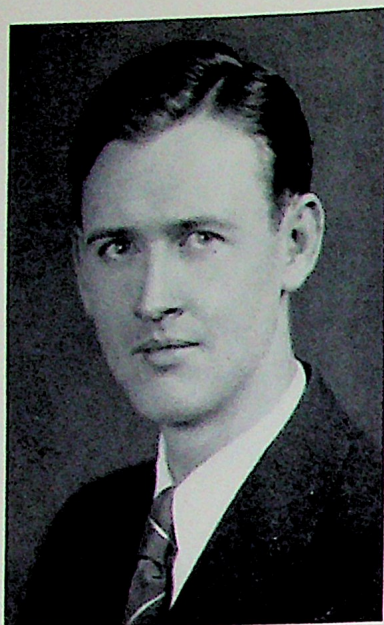
A. I. E. E.; Class Sec'y., '30.

Harry is the class mathematician, and by the way he hands in his math homework and mathematical solutions to problems he must make a research on each problem. He's a great fellow for remembering figures (math). He is the class handbook on numerical values of things, ask him.

Aside from his studies he is reputed to be a riot with women. He is the reason no clerical work is done by the femmes at the Sonotone Corp. where he applies his math vigorously to the solution of engineering problems.

When he graduates with his B. S. from Cooper he intends to further his studies of math and physics into the realms of Steinmetz and Einstein.





EDWARD A. P. PHELAN

"Eddie"

Electrical Engineering

Dickinson High School

A. I. E. E.

Just another mosquito dodger from New Jersey. Eddie is a nonchalant type, who would light his cigarette on the fuse he is blowing. In his drawing class, it can be observed that he washes his hands about four or five times. This may be due to wanting clean hands or perhaps he has a few favorite models he likes to look at.

However, Eddie is a willing worker, and at the end of the laboratory periods he can be seen picking up current leads and sweeping up stray milli-volts.

The fair sex must be a constant annoyance to so handsome a chap. But he never seems to mind such sweet annoyances, for he is always in the best of humor.

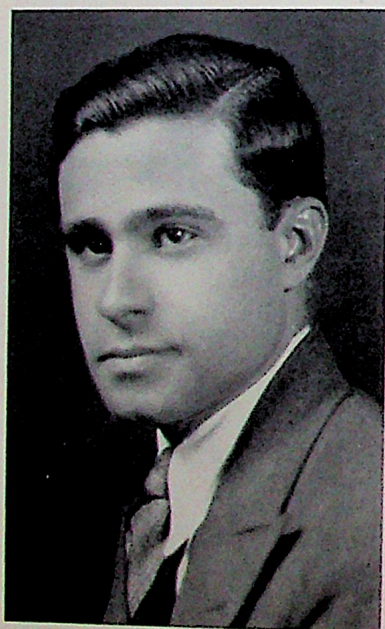


JOSEPH J. PIANO

"Joe"

Electrical Engineering

A. I. E. E.



"Small but mighty," that's Joe. Already an indispensable part of the Long Distance Telephone game, he—never content with the present condition—is sure to be successful. If someone shouts a question at the instructor in a tone which demands an immediate answer, that's Joe, on the job, making things clear to himself and the class.

He is the lower part of another "Mutt and Jeff" team, being paired with Vic Parodi, another of the "24 Walker Street" gang.

Joe's capacity for hard work and ability to attain his usual high standard in his accomplishments is neatly and wholly explained in the four-letter word "Phil," who, by the way, happens to be Joe's future better half.

Good luck, Phil, keep him going.

One Hundred Thirty-four



JAMES QUINN

"Jimmy"

Electrical Engineering

All Hallows Institute

A. I. E. E.; Track, '27, '28, '29, '30.

Twenty-three, white, and single. Believes every knock is a boost, so here goes:—

Bounced a few times on his head when a baby and since then conceived an idea that he could become an E. E. A few more like him and the fuse manufacturing companies would be declaring dividends monthly.

Jimmy has placed himself on the track team of which he admits he is a valuable member. He starts his races by stepping on someone's toes and then running for the tape. In this way he has collected more points for Cooper than he knows what to do with. Possessor of three Maroon "C's" he is looking forward to getting the gold foot.



ROBERT S. REMINGTON

"Rem"

Electrical Engineering

High School Central Newark

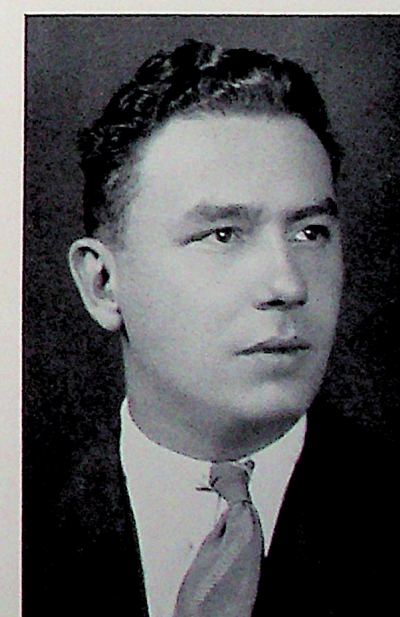
Class Treasurer, '27.

Rem (this is not an advertisement) is especially familiar with school life, since he teaches in a New York High School all day and then takes Electrical Engineering at night. He is away from home so much that it was in reference to him that the joke about the boy who asked his mother who that strange man was, originated.

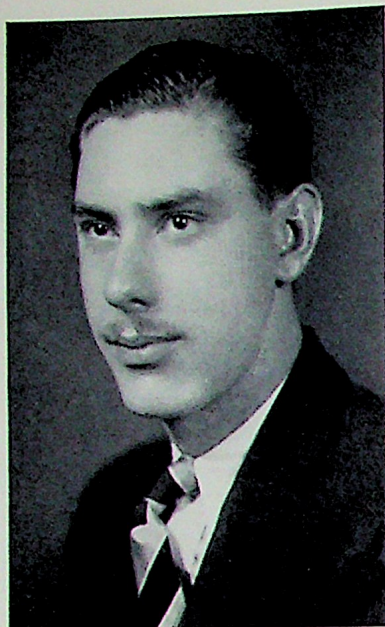
Evidently he is not away from home by choice, since he sprints for the train at the sound of the bell. This also accounts for his lack of activities.

He also has another reason for inactivity—he can always find excuses—being a married man.

Cooper Union is a step toward an M. S. and a Ph. D. for him.



One Hundred Thirty-five



FRED J. RICHTER

"Ric" $\Phi \Sigma \Omega$

Electrical Engineering

De Witt Clinton High School

Class Secretary, '31.

"Ric is one of those big fellows who have to duck their heads every time they enter or leave a subway train. A resident of the theatrical district, he is a typical New Yorker. Ric is one of those tall, handsome chaps who sport a mustache. Naturally, therefore, he is a great favorite with the fairer sex, a prerequisite for a good engineer.

Invariably Ric's greeting is "where is the money for this or that," for when not busy with heat and "D. C.," his two pet hobbies, he is busy trying to wring CABLE subscriptions from his classmates, which he clams, is worse than trying to get money from a Scotchman.



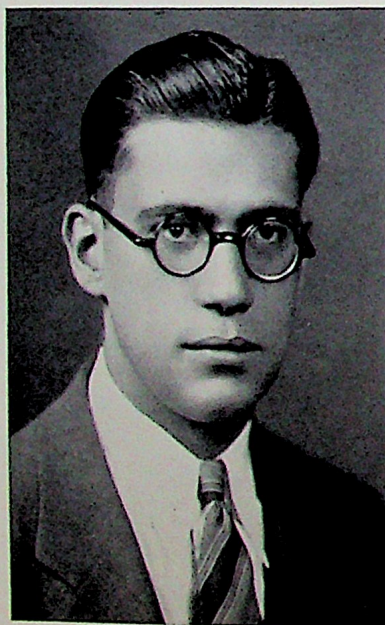
CHARLES SCHNEIDER

"Charlie"

Electrical Engineering

Stuyvesant High School

A. I. E. E.



Who is this fellow called Hercules? Well, he has nothing on Charlie. This loyal son of Cooper hails from the foreign land called The Bronx, and he certainly deserves credit for tolerating it.

His arguments are his chief assets and liabilities, and for this reason he is well liked by his fellow students, for he kills many an hour arguing assiduously with the Profs, even if he gets nowhere.

In spite of the fact that Charlie has joined the ranks of the benedicts, he is one of the Seven Wonders who can do two things at the same time and do them both well, viz., govern his spouse and govern his armature windings.



WILLIAM SCHOELL

"Bill"

Electrical Engineering

Boys' Vocational High School

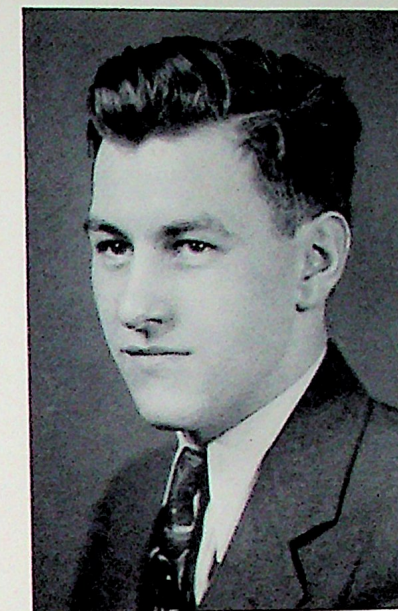
A. I. E. E.; Class Treas., '29, '30, '31.

Bill wants to go to South America to practice his profession. He made up his mind after using an amateur shunt for a fuse.

Bill was class treasurer for three years and bought a Ford in the fourth year. We are still wondering where he got the money.

His favorite hobbies are girls and ice-skating, and he talks about both of them all night. As long as he goes no further than talk about them he's alright.

Bill is well liked by his classmates, but we will have to step on him if he persists in asking for class dues. It is due to his super-abundant energy that we do manage to have some money in the treasury.



LEO GEORGE SCHROEDER

"Georgie"

Electrical Engineering

Hampstead High School

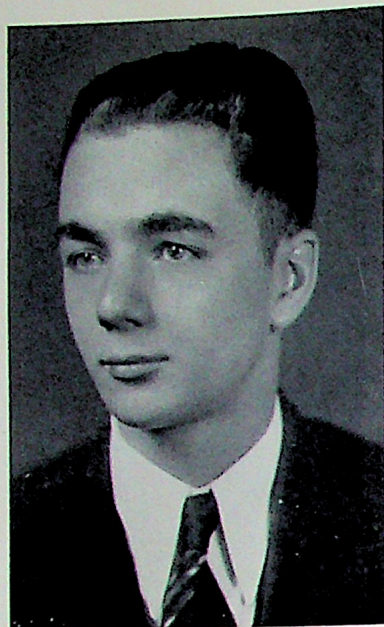
A. I. E. E.

On the wings of fame, one windy day in October, came to our arms our good friend Schroeder. Handicapped as he was, coming from Long Island, he nevertheless bid fond farewell to Hempstead High School and started out for new fields to conquer. Lucky indeed were we to find him in our midst.

For four years "Georgie," as we, his friends know him, by his dynamic personality has marked for himself a place in both, school and class.

That he will be a success as an Engineer, there is no doubt, for he seems to possess an uncanny sense for the solution of technical problems, and has all the attributes of an Engineer.





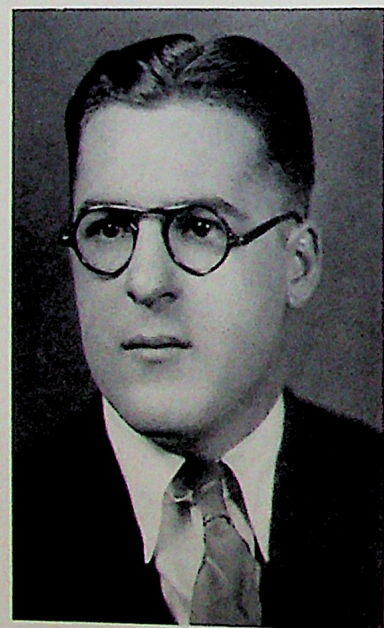
HERMAN FRED SCHULZ

"Schully"

Electrical Engineering
Stuyvesant High School
A. I. E. E.

Believe it or not, this young Adonis aspires to become an Engineer, and while the ambition is commendable and the talent is, without doubt present, it is our humble opinion that Engineering's gain is cinema's loss. What a John Gilbert he would make!

He labors under the handicap of being an Elmhurstite, but one would never suspect it from his always cheerful countenance and—this is confidential—if you ever need another hand at bridge or pinochle and you do not mind losing, or someone to whoop up a party, just call "Spring 3100" and ask for Schully. After they had him there for a while, they will probably pay you to take him away.



HARRY J. SHERIDAN

"Harry"

Electrical Engineering
Mechanics Institute
A. I. E. E.

Harry hails from some point on Long Island. The only time he moves fast is when he hurries home to the one that is waiting. Anybody that tackles married life and the E. E. course must have a lot of nerve or a strong backbone, and Harry has both.

One doesn't have to be told who the boss is, as he has to go home for his meals. He claims he doesn't eat much because his legs are weak. Maybe the biscuits are heavy?

However, he keeps on plugging along, and we'll be seeing him along with us in the fifth year.



STANLEY T. SLEZAK

"Slakey"

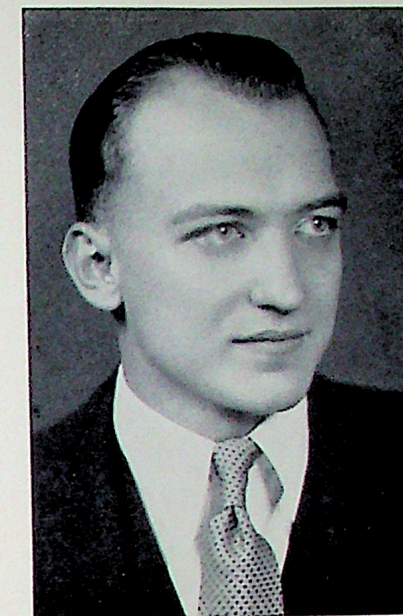
Φ Σ Ω

Electrical Engineering

Basketball, '25, '26, '28, '29, '30; A. I. E. E., Rep., '29; Circulation Mgr., '31 Cable; Inter-class Basketball, '26, Sec'y A. O., '30; Ass't Basketball Mgr., '30; Basketball Mgr., '31; Gold "C"; Ex Post Facto, '32.

Remembering that "It is far more blessed to give than to receive," Slakey sure does give plenty of his spare time to extra-curricula activities. When he isn't dribbling around the court befuddling his opponents, he is chasing after elusive dollars of prospective CABLE purchasers.

When? Yes! Of course he studies, but only when he can't date a fair damsel at the last minute, and goodness only knows how many of these creatures are listed in his telephone book.



CHARLES F. STEWART

"Charlie"

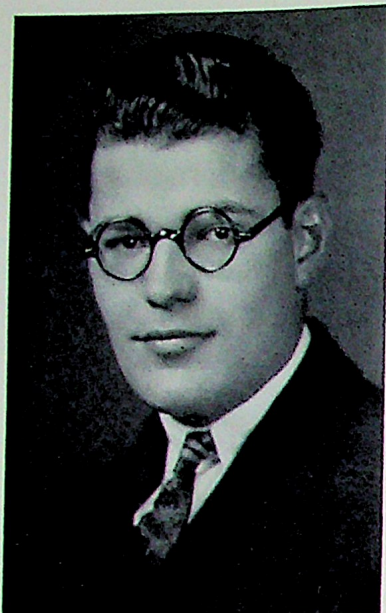
Electrical Engineering
Stuyvesant High School

Class Pres., '26; Chairman Junior Prom Comm., '31.

Mr. Stewart is accredited with achieving the impossible. Whether or not he hypnotizes them is a question, but he can engage in argument with most instructors and invariably win. The secret of his success probably lies in the training his wife gives him.

Stewart's other enjoyment seems to be the arrangement of class affairs in which he has succeeded admirably. If the relief felt by the proprietor of the restaurant as the last student left can be taken as a measure of the success of the last class dinner which Mr. Stewart arranged, it certainly must have been a fine affair. It is claimed that as he closed the door behind the last he was seen to shake hands with himself.





MARTIN TOMACHECK

*"Genius"*Electrical Engineering
Stuyvesant High School

"Genius" is one of those good-natured fellows who is always ready to join in the fun. His nickname fits him perfectly, for he is sure a genius for dodging work, especially home work. He is always complaining how hard the work is, but when the end of the year rolls around he always comes through. His favorite classroom sport is matching pennies, but when pay day comes around his pockets are only full of nickels. He has a weakness for red-heads, although he has yet to meet a true red-head. He is crazy for pretzels and what goes with them. With all his faults, he is one good skate, and the class wishes him the best of luck in his five-year hunt for a woman and a B. S. degree.



SYLVAN VAN BLERKOM

*"Van"*Electrical Engineering
Vocational School for Boys
A. I. E. E.

Van is the smallest fellow in the class, and he usually sits in the last row with all of the big fellows in front of him. However, this does not mean that he takes a back seat in his studies, for he is well up in them.

His pet ambition is to drive a Ford on a tight-rope without removing the tires. He owns an Essex and can usually be seen taking it apart to see what makes it rattle so much. The rest of the time he can be seen showing the females the sights and stars.

However, we all wish him the best of luck, and hope that his conquest of a B. S. will rival his conquest of the fair sex.



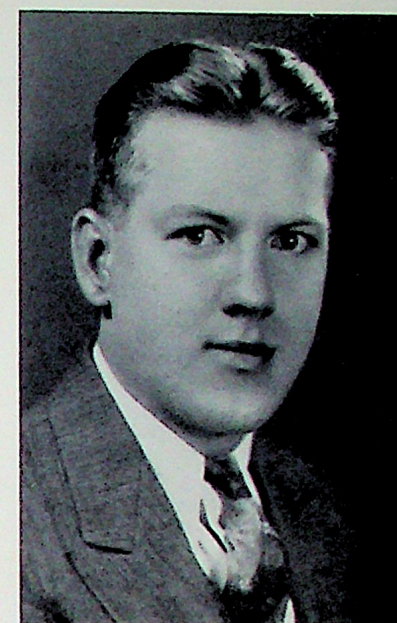
RALPH WINDRUM

"Windy" $\Phi \Sigma \Omega$ Electrical Engineering
Manual Training High School

Class Pres., '31; Photo Ed., '31 Cable; C. U. N. S. C., '31; Junior Prom. Comm., '31; Gold "C" Award; Ex Post Facto, '32.

Windy is our big camera and lens man from telephoto, and he sure knows his dark rooms. But that is not his only form of extra-curricula as the above list of activities prove. When there is anything going on he is there "with bells on."

His pet hobbies are resetting the machines in the D. C. Lab, social activities and photography. Among his sins, sleeping in class under his eye-shade and being unconventional are listed. And we still don't think that the life classes should have taken so much of the Photo Editor's time.



Architecture



President

PHILIP S. ANTHERS

Vice-President

JOSEPH MARRACCINO, JR.

Secretary

FREDERICK M. SHEFFIELD

Treasurer

JOSEPH M. BOCCIO

*W*E, undoubtedly are the most school-spirited Architectural class that has ever trod the halls of Cooper Union. Our magnanimous spirit, and capable executives have produced an irresistible combination which has impressed itself throughout the entire school. No other group in the Architectural division has ever attained the scholastic recognition so willingly granted us. Our name has become synonymous with success; for we have never failed to satisfactorily terminate our school functions.

This year, particularly, has been filled with innumerable activities and memorable events. We have established so many new precedents, that the school has come to take our deviations from the beaten path for granted. Our motto has been: "Be the first by which the new is tried, and not the last to cast the old aside." The consistently regular attendance at our meetings has been the foundation on which we have built our pre-eminence.

Speakers, who were secured especially for our class have undoubtedly proven beneficial in our school work. We have been instrumental in organizing the Architectural Club of Cooper Union (A. C. C. U.) This club has set about assisting the Architectural students with all the vim that so typifies us.

We have not fallen down in athletics either. Not a season has passed but that we have had one or more varsity members on all athletic teams. All our athletes have added to the honor and prestige of the class.

We, the Class of '32, will unreservedly go down in the annals of Cooper Union as the most versatile and pioneering class in the Architectural Department.

THE HISTORIAN.

One Hundred Forty-two



PHILIP S. ANTHERS

"Phil"

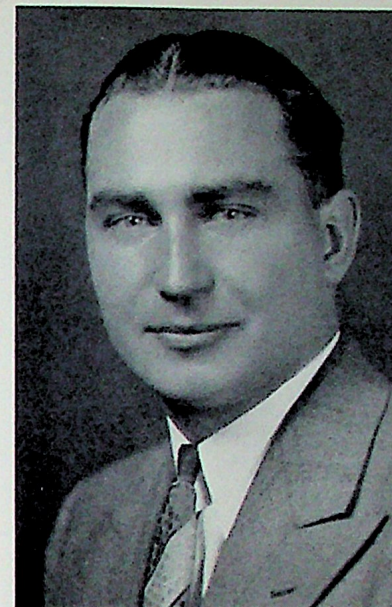
Architecture

Evander Childs High School

New York University

Class Treasurer, '30; Class President, '31; Student Council, '31; Arch. Circulation Mgr., '31 Cable; Tennis Team:—Ass't Mgr., '29, Capt., '30; Mgr., '31; Vice-President A. C. C. U., '31; Night Eng. Council, '31; Chairman Entertainment Comm. Annual Dance, '31; 1st Mention, '29.

The boy executive, that's him. We predict a brilliant future for "Phil." With his rich, stentorian voice rising above the others, he ruled the Juniors through their turbulent and stormy Third Year. As a tenniseer par excellence, and as a glowing orator, he served his Alma Mater diligently and heroically. His lot is the lot of the brave and fearless figure, who, from time immemorable, have held the reins of their ungovernable mates.



JOSEPH BOCCIO

"Joe"

Architecture

Bryant High School

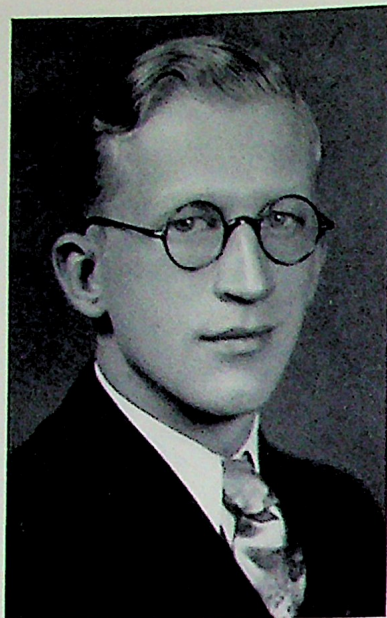
Class Treasurer, '31; Student Council, '31; Night Annual Committee, '31; Junior Prom Committee, '31; Honorable Mention, '29; A. C. C. U.

We never believed in reincarnation until we saw Joe, who, incidentally, was Treasurer of the Junior Year, collecting class dues. The immortal Shakespeare would certainly chuckle if he could see this modern "Shylock" demanding his pound of flesh—er—dues. With bulldog tenacity, he would stealthily creep up on the delinquent classmate and suddenly pounce on him, and in that awful voice that struck terror to the hearts, he would ask, "Well, how much yuh gonna give me tonight?" However, as soon as you paid your dues, you immediately became a favorite son, and Joe's benevolent and caressing smile would beam on you like a shaft of sunshine from a blue sky.



One Hundred Forty-three





LAWRENCE BOCHINSKI

"Larry"

Architecture

Boonton High School

2nd Hon. Mention, '29.

2nd Hon. Mention, '30.

Larry is another of those ambitious and studious Jerseyites that find Cooper Union interesting. Coming all the way from Boonton makes that fact evident.

His grin, friendly manner and willing helpfulness are his chief characteristics. Larry is like a speed boat with an underwater exhaust—he accomplishes a great deal with very little noise. Occasionally he also finds time for a little indulgence in a humorous discussion with his classmates. The subject always seems to be the fair sex. Of course, if you look at Larry you wouldn't think that of him, but you never can tell what these serious fellows are up to.



PETER CIRINGIONE

"Pete"

Architecture

Roosevelt High School

A. C. C. U.; 1st prize, '29

Quiet fellows, as a rule, do the best and most work in a classroom. Pete, it seems, can be classed among them. Although quiet, don't get the idea that he is dead, for many is the time he'd mingle in with the bunch and chat, naturally about women, and anything Pete doesn't know about women isn't worth knowing.

Pete is an ambitious fellow, and when the lights are ready to be turned out, we'd always have to yell, "Pete, quit working for tonight!" and upon hearing this command, or rather request, his facial expression is indicative of sour grapes.

Good luck has already befallen him, for he is now employed in an uptown Architect's office.



ANTHONY J. CORRADO

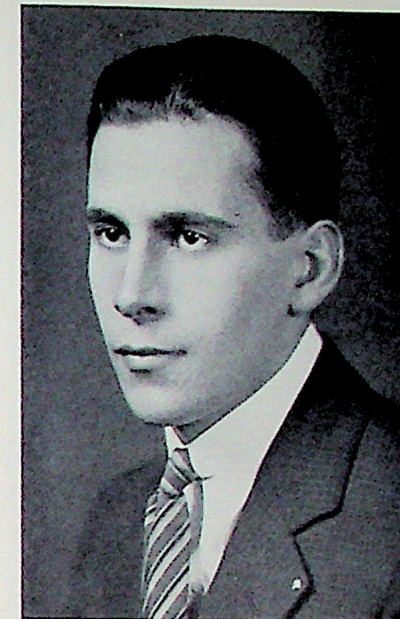
"Carideo"

Architecture

West Technical High School, Cleveland, Ohio.

A. C. C. U.

At the tender age of fourteen "Carideo" invaded our city in search of knowledge. Two years later he landed in Cooper. His other vice is his friendship for "Hot shot" Fregosi. Wherever one is, the other is sure to be, and for no good. He works, too, that is, during the day, and he shows an unusual solicitude for tiles, probably from singing in the bathtub. Will back his pals in anything, such as razzing speakers, kibitzing over somebody else's drawing, and tossing to see who pays for the drinks of cocoa cola. He ran for every class officership, and each time he was lucky enough to lose. He loves to do estimating, that is, when he gets around to the lesson he was supposed to have done two months before.



KEITH I. CRONSHEY

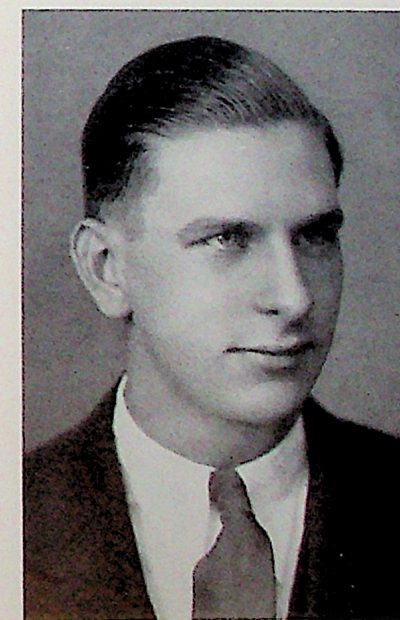
Architecture

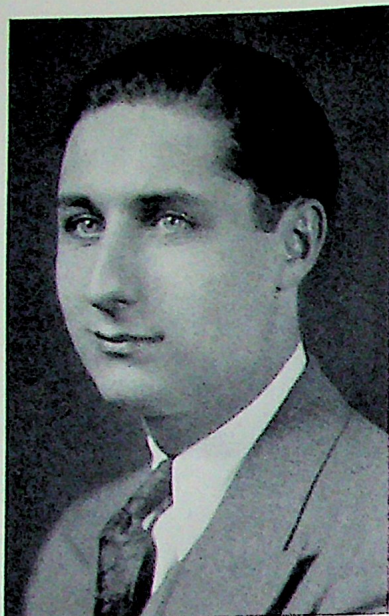
Central High School

Take a good look at the best dressed student in our class. Besides taking time to dress well, "Mongey" finds time to accomplish some of the most difficult problems concerning the class.

"Mongey" is one of New Jersey's hustling bustling commuters, coming all the way from the wilderness of Morris Plains.

Give "Mongey" a football or a baseball bat and he is happy. "Mongey's" idea of school would be good coaches, a good gym, a good athletic field, and an absence of teachers. We are sorry to state that he was terribly disappointed in that respect (with no reflection on others, of course), when he entered Cooper. However, he soon reconciled himself to the fact that in Cooper it's all work and no play, and he successfully converted his athletic ability into Architectural channels.





LESTER DAVIS
"The Sheik"
Architecture

Stuyvesant High School

One of the shining stars of his class. Most liked by everyone. His record is one well worth having. Hard work and constant application of ability have won for him a standing and reputation which his fellow-mates readily recognize. Along with this fine work, he is known to be one of the most unselfish and conscientious workers in the class. It never has been said that he refused to help or advise any classmate.

Getting down to personality, ah! a sterling one, and charming, too. His eyes, with magnetic force stronger than any love potion, help to explain his way with the women.

Looks, appearance and does he dance? A dance floor's nemesis. Can any girl wish for more?

JOHN DE MARCO
"Johnny"
Architecture
A. C. C. U.



Allow us to present John D., globe-trotter extraordinary. Gentleman of leisure; virile, versatile, violent he-man; a prince of radio-bugs, and our most ineligible bachelor. The wealth of color and experience which this young man has crowded into his short life is amazing.

At fourteen years of age he became bored with life. At the age of sixteen he had seen half of this darn earth, utilizing his virility, his versatility, and his violence in a mad endeavor, a frantic search for an ideal. Now he is satisfied, he has found life not an idealistic affair, but one full of great yearning pits.

This, in short, is the condition of John D.'s psychic make-up; but he is also a man of various sundry achievement. By the way, have you noticed his Oxford accent?

ARTHUR DE VITA
"Artie"
Architecture

Manual Training High School
A. C. C. U.



Here we have the quietest young man of the Junior Architectural Drawing class. Allow us to present Artie. Yes! Even his name is indicative of art.

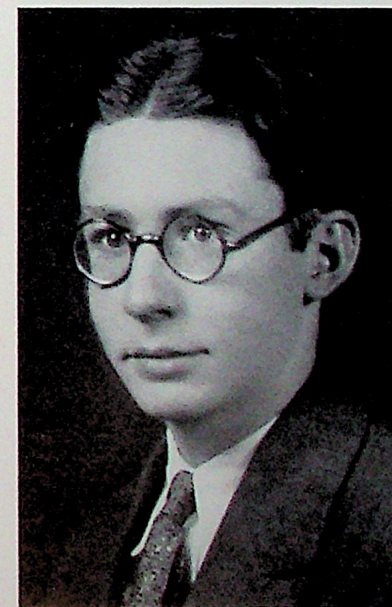
His taciturnity presented us with quite a difficult task to ascertain his traits and hobbies. But we were not to be thwarted, as our efforts were soon compensated with the knowledge that, to our surprise and admiration, our little Artie learned his alphabet at the tender age of eighteen months (?). With such precocious intelligence, it is no wonder that he is desirous of becoming an architect.

Well, now that we have been enlightened as to his quiescence, we extend our heartiest wishes that his ideals and ambitions meet with fair success.

ALLAN DICKSON
"Red"
Architecture

La Salle Academy

First Honorable Mention, '30



Pictured alongside of this inscription we have a chap who wants to be an Architect, and he has every prospect of becoming one, too, that explains his presence at Cooper. Tho retiring, by nature, Allan is not at all backward, having reached the Junior Year, pausing long enough to gather a First Honorable Mention on the way. Besides being the only red-head in the class, Allan seems to be using a smile for his umbrella—even when it isn't raining. With his cheerful personality, and his aptitude for this work, we feel that he will succeed in his chosen profession.



ANTHONY DI STASIO
"Tony"

Architecture
Port Chester High School

Tony is one of those strong, silent men who does not speak unless provoked. He's a very valuable man to become connected with; knows the answer to an estimating problem before the problem is stated to the class.

Be that as it may, he also belongs to that pioneering fraternity that journeys from the hinterlands to school every night. He hails from Port Chester. Why, of course, Port Chester is certainly in the United States (somewhere). How do we know? Well, when we asked him for his passport one night, he claimed that he didn't need any. Seeing the doubt in our eyes, he said not a word, but brought us a map of New York State, and there, faint but unmistakable, we saw the name Port Chester.



BERNARD FEINER
"Lightning"

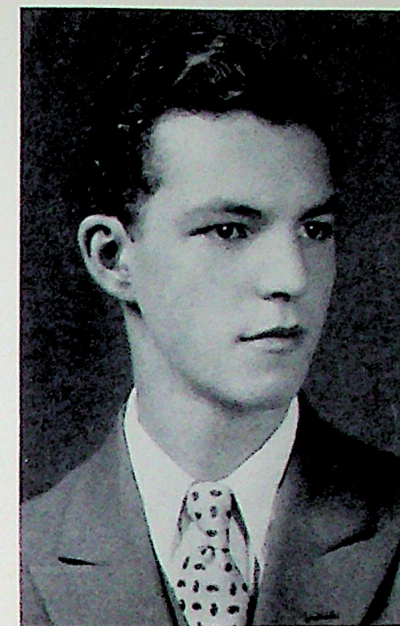
Architecture
Morris High School

Was born in the Bronx, is still living there. Was a pretty chubby baby, doesn't look that way now. He eats four meals a day except Saturday and Sunday eats only two then. Is fond of music and admires Rudy Vallee. Takes his time about everything, that is how he got his nickname "Lightning". Likes the girls but is very bashful in their presence. Doesn't smoke or drink but is always making wisecracks. Is fond of dancing but can't dance very well. His ambition is to become an architect. Here's wishing him luck.

JOHN J. FIGLOZZI
"Figgy"

Architecture
Manual Training High School
A. C. C. U.; First Prize, '30.

Johnny is one of the Two Inseparables. The other is Lenny Golos. They do their homework and classwork together. Go to shows, go out with their girl friends, eat, drink and do about everything else together. They are the Damon and Pythias, of the class. Johnny is the artist of the two, having won first prize for their work as a Sophomore, and is well on the way toward repeating this year. As artists should be, he is a swell dancer, and an accomplished musician; and how the girls go for him, and his classic features. Can you blame them? Good luck to you, Johnny, may you realize your ambition, and attain the success you so highly deserve. We are sure you can do it.



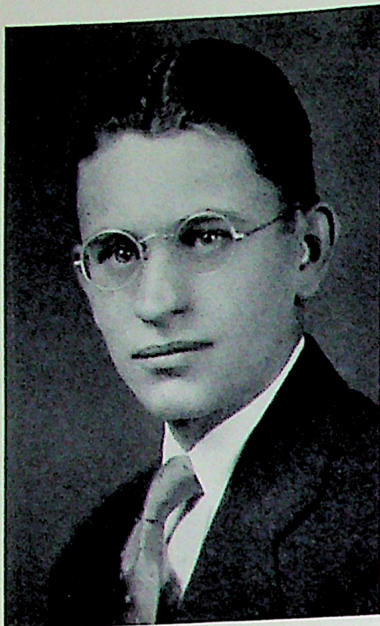
DAVID FISHER
"Dave"

Architecture
New Utrecht High School
A. C. C. U.

An Architect in the making, a Kibitzer in the flesh and an accomplished musician (only in the classroom). In the years to come, he hopes to be a success, but as is often said, you live in hopes and die in despair. I guess that's what he'll do—die in despair, thinking of what he might have been, but was not. Maybe he will, but who knows.

If I must say, Dave, is a nice chap, very pleasing and a great Kibitzer. Look at his picture, it does show something besides his features, doesn't it? A great lover (we should know aren't we writing this?) Don't laugh, this is serious. Honest you could almost like the guy if he wasn't always trying to stick you with the "Pioneer".





JOSEPH FOLDING
"Doc"

Architecture

Stuyvesant High School

Secretary, '30; Member of Council, '30.

Joe is one of the (regular) members of the class, although you have to know him pretty well to realize he is not a part-timer.

This may give you the impression that he is not quite all he should be. Nothing could be further from the truth. A few absences here or there really don't amount to much when one is so gifted a student. Everything seems to come so easily to him, we are continually at a loss as to determine just how our drawing instruments get to him.

Nevertheless he ranks top notch with the boys and we feel that he will continue to do so long after he leaves us.



ENRICO FORLANO
"Henny"

Architecture

Stuyvesant High School

Basketball Squad, '31; Tennis Squad, '31.
A. C. C. U.

Henny is one of those strong, silent men we often hear about, and is not afraid of thunder. The only time he breaks his silence is when anyone bothers him to get their instruments back and then he voices his opinion in no gentle tone. And, oh boy, is he hard on erasers.

All in all he is a good scout and has an almost fiendish desire to chew hard candy. When asked about his girl friends he merely says, "Aw heck, they cost too much".

However, Henny is right on the spot with his work and can always be depended upon to have all his work up to date when you want to borrow it. There is no doubt that he will be successful and we wish him luck.



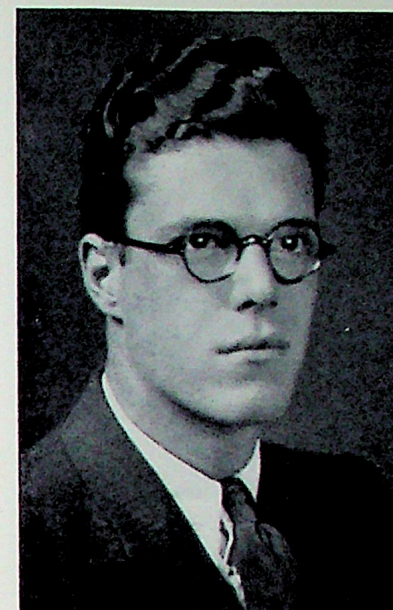
ARTHUR J. FREGOSI
"Hot Shot"

Morris High School

A. C. C. U.

"The voice with the smile". If you don't believe it, look in his little black address book. The reason we call him "Hot Shot" is that he is always hot after something, and he is usually half shot. His greatest weakness "The Femme", and he's strong for dancing and fencing. Quite a fencer that boy; he won the National Novice Championship of 1930. What he loves, and what we hate about him, is his ability to disrupt a class meeting by starting a word fight and then sitting back and watching everybody else talking through their hats.

His source of information and cigarettes is "Carideo Corrado", his inseparable companion. What a team! What those two could do to either a class meeting or a girls boarding school is nobody's business.



ISIDORE GELLMAN
"Irv"

Architecture

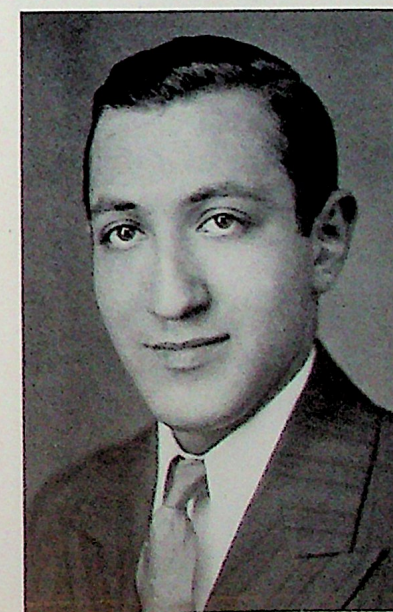
Hebrew Technical Institute

A. C. C. U.

Irv is one of those quiet chaps which personify the proverb "Still waters run deep". His brain (if any) is constantly undergoing a perpetual change, i. e., he is constantly forming new ideas, which he hopes to put into practice some day. The Empire State Building is but an atom compared to his ambitions.

He tackles his problems in Architecture and estimating in a true veteran style, that is, in the most practical manner, and makes no commotion over them.

Money means nothing to him (He never has any). Another of his ambitions is to lead an intellectual and not a material life. With such lofty ambitions we cannot see how he can fail in life.





FELIX L. GHIRLANDO

"Felix"

Architecture

"Felix" (not of the cat family) born in Malta, February 23, 1907, was imported by this country November 23, 1927, as a rare species, heretofore unknown to man. In the daytime he is employed as statistician of the Service Dept., of the National Broadcasting Company. In that capacity he tries to be a big business man, figuring the cost of this and that even to nails. Think you a contractor could put anything over on him, when he graduates in Architectural construction? only over his head! If he gets any good out of his classes, one fails to see it, for he spends most of his time borrowing thumb tacks, rulers and triangles. His favorite instrument is an eraser.



THOMAS GILARDINO

"Tom"

Architecture

A. C. C. U.

Hello folks, I want you to meet Tom, one of our future architects-maybe. A very popular young man, indeed; seems to know everybody; it must be his pleasant personality.

Swell fellow; always willing to help his classmates and grub cigarettes. Why, if Tom left school, we don't know what his neighbors would do, for, as soon as he enters the room you can hear them shout; "Hey Tom! Let's borrow your knife"; "How about a piece of paper"; "Let's have your sandpaper pad"; "Where's your ink?" etc., etc.

Poor Tom is very sensitive and his classmates, being aware of this, take full advantage of it. Yet he regains his composure in short order.



HUGH GLASSBERG

"Huck"

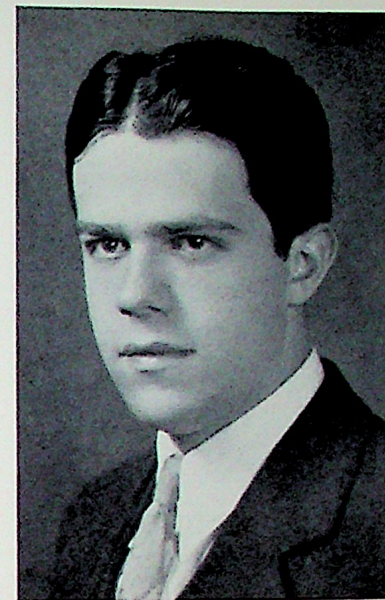
Architecture

Seward High School

C. C. N. Y.

Here's a usually quiet and unassuming chap whose spells of quietness are not frequently interrupted by some clever quip or remark involving bits of wit and humor. All of which lets us know that behind that mask of silence, there is an alert and active mind. Quick, Rodin, here's your living, Thinker"; perfect all right, Huck, but remember you must acquire a gift of "gab" and let people know you're there.

And now Huck (we never did understand why you are called that; you're nothing like your namesake, Huck Finn), just what are your grievances against the Jewish girls—honestly, now—what are they?



SIDNEY GOLDGRABEN

"Sid"

Architecture

Stuyvesant High School

New York University

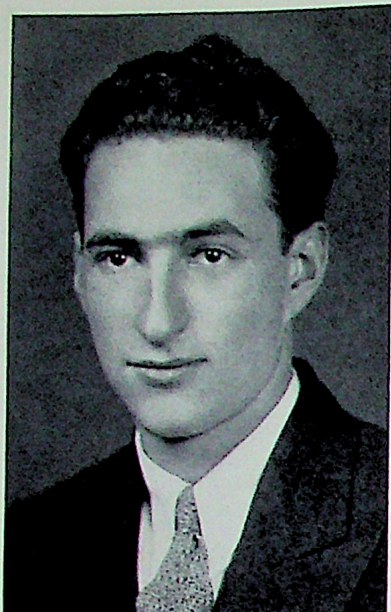
Sid is one of the more serious members of the class, he has reason to be; what with the responsibilities of an exacting job, a wife and a Ford coupe. Do you wonder!

If Sid's tablet design continues to blossom, Cass Gilbert had better look to his laurels.

That Stanford White memorial being turned out by our hero, bids fair to be good indeed; so good in fact, that possibly, Harry K. Thaw may be interested in purchasing it.

Sid underwent a metamorphosis this last spring. But this chronicler is not going to harp on the nuptials of our craven youngster. However, 'tis well to be mindful of what a good antidote is to the springtime and its grim foreboding of listless ennui besides sulphur and molasses. Vale, Sid!





HYMAN GOLDMAN

"Staizes"

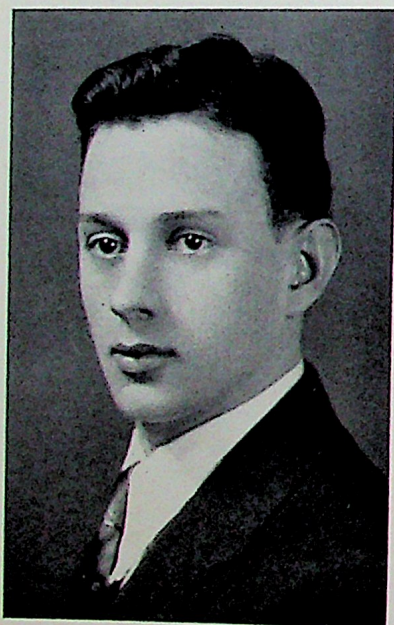
Architecture

A. C. C. U.

From common ordinary "Staizes" to classic orders is the story of this young man's meteoric rise (interpreting "Staizes," it's Hy's pronunciation of the word stairs).

Look closely at him. Bear that face in mind, for some day he'll be doing big things for his country (no, not with the face). A pencil spoiler, supreme. He insists he's a draftsman. But, be that as it may, in insisting there is no expense involved whatsoever. His hobby, if it can ever materialize, is to spend, but that's impossible, as he lacks that with which to spend.

However, seriously speaking, Hy is not a bad fellow at all, his wealth of good nature has never failed to make friends. His one ambition is to become an architect and for his own sake we wish him luck.



LEONARD PAUL GOŁOS

"Lenny"

Architecture

Elmira High School

Basketball, '29, '30, '31; Track, '29; Pioneer Board, '30, '31; A. C. C. U.; Athletic Organization; Pi Sigma; Sportsmanship Brotherhood.

Lenny is the other of the Two Inseparables. Johnny Figlozzi being the first. They do their classwork and homework together. Go to shows, go out with their girl friends, eat, drink, and do about everything else together. They are the Damon and Pythias of the class. Lenny goes after the extra-curricular affairs of the school. Note the aforementioned activities. He thinks Johnny is a shark in drawing, and Johnny thinks he is a whiz in estimating, so that evens up matters. Lenny is at his best in basketball, but he is also a good columnist. He is the "King Scherezade" of "Words Without Music".



EDWIN HAMILTON

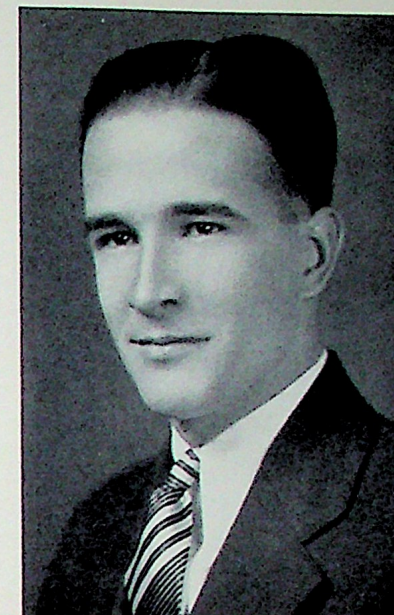
"Eddie"

Architecture

Curtis High School

Honorable Mention, '29.

Introducing Eddie, an inhabitant of Staten Island, which some how or other reminds us of Robinson Crusoe's Goat Island. Eddie, however, maintains that there's no place like home; and he's right. His favorite pastime is bowling and we understand that he is quite a weasel at it. In designing his first problem in the third year, Eddie was at a loss trying to unearth a bust for his commemorative tablet. "Find it or Bust," was his motto, until he finally succeeded in delineating a bust that he is now quite proud of. However, Eddie is an industrious worker and if he continues to design tablets and houses as well as he bowls, he will some day, no doubt, become an AR-CHI-TACT.



JOHN KONZELMANN

"Johnnie"

Architecture

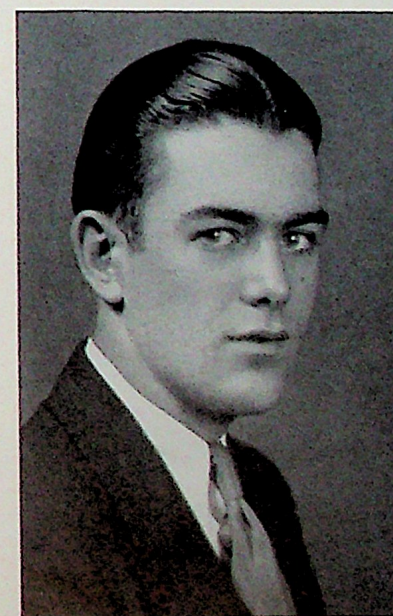
Murray Hill Tech.

A. C. C. U.

Let us introduce jolly, carefree Johnnie, another of our interesting characters and promising architects; we're not positive of the "promising architect", but we can truthfully say that he's always willing to help his classmates with their problems. When there's a drawing to be done requiring an undue amount of brain power, can we depend on handsome Johnnie? Well—He'll tax his intellect to the limit, anyway.

He is one of the big fellows of the class, but like most big men he keeps within the limits of his abilities. He also takes time off to keep us supplied with varied bits of wit and humor.

Johnnie is employed by that great uplifting concern known as the "Otis Elevator Co."





WILLIAM LEPETRI

"Bill"

Architecture

Lincoln High School
A. C. C. U.

Five foot two, but his eyes are not blue, that's "Bill". He may be small (and while we're at it, rather stout) but "Oh Boy", what a bundle of energy. He'll work like a trooper in class then rush out of school saying he has a date or meeting and what not. Speaking of meetings he is one fellow you'll find at almost all of our class or Architectural Club meetings. He is no slouch at drawing either, someday he'll be a success.

We'd take great pleasure in stating that he is quiet and bashful, but we can't, he is just the opposite. We sometimes wonder how one so small could make so much noise. And has he got nerve? Well, try and put something over on him, you'll find out.



JAMES MARINO

"Jimmie"

Architecture

De Witt Clinton High School



Calm, industrious, jovial and possessive of a fine disposition, is Jimmie. His domicile is situated in a section where an artistic and poetic element prevail, Greenwich Village. We wonder if that influenced him to become an architect.

Jimmie's days are utilized in the capacity of topographical draftsman for the municipality and if one looks at his drawings he will immediately visualize, bigger, better and more elaborate parks in the future. However, we suggest and hope, that for the sake of those hot summer days, he squeeze in a swimming pool for the public in his next park layout.

Usually, for students like Jimmie, there is an incentive for obtaining a diploma. You guessed it, there is someone waiting.



JOSEPH MARRACCINO, JR.

"Gentleman Joe"

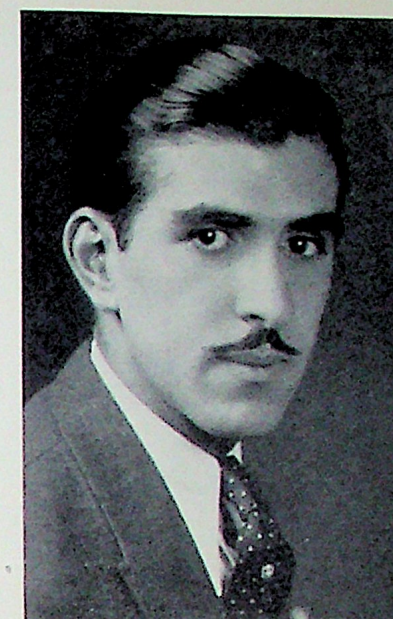
Architecture

Stuyvesant Evening Trade School

A. C. C. U.; Vice-Pres., Students' Council, '31; Class Sec'y, '29; Class Pres., '30; Class Vice-Pres., '31; Students' Council, '29, '30, '31; Arch. Cable Editor, '31.

Our Joie is the collar ad boy of the class always perfectly tailored and groomed, (and he has got the cutest mustache) he spreads sunshine and joy wherever he goes. Rumor hath it that Joie is studying Architecture so that he may design a little nest for two, just as soon as the lady says the one word that will make him the happiest man alive. Of course we may be wrong but why does he make that same mysterious telephone call every single night.

Joe takes his duties seriously, despite his amorous leaning, and he may be seen any night wandering thoughtfully through the halls.



CHARLES MELOV

"Mel"

Architecture

Richmond Hill High School



To listen to our Mr. Soicher (quite an Adonis himself) this is the best looking embryonic Architect in the class. Always on the go and anxious to turn out the best drawing. Owes his good looks to plenty of sleep, both horizontally and vertically. Could rank with Rudy Valee, but lacks a crooning voice. Has "IT" and must be a knockout with the women. Is quite modest and does not like to talk about his amours. Is a real sport among his classmates and hands out candy to keep them in revived spirits during the period. Is ranked as a gentleman and a scholar and is well liked by his classmates. Lots of luck, Mel.





ISADORE MIROWITZ

"Hal"

Architecture

Eastern District High School
A. C. C. U.

We think "Hal" has ambitions of becoming a detective. At any rate that is the only reason we can offer for his supporting a moustache. We figure that when the proper time to disguise himself arrives, he will shave the moustache off, and vice-versa.

We hate to give out to a palpitating public the fact that "Hal" is one of the most obliging fellows in the class. Who knows but that with this prosperity they might wish to touch him for a ten-spot, if he had it.

Hal's growth was permanently interrupted when only half way up from the floor and for this reason we believe that his drawings are not what can be expected from such a small parcel of humanity, as you know the old saying goes: "Good things come in small packages."

JOHN NAKOS

"Jerry"

Architecture

Stuyvesant High School
College of the City of New York
Handball, '29, '30, '31; Manager, '31; Class Treasurer, '29; Student Council, '29; Honorable Mention, '29.

Jerry is a quiet, regular fellow. He likes to play handball so much he would rather play than eat. He always sits in a corner by himself, but is always ready for those who ask him. Although he does not seem to come to class much, his work is always neat and good; a natural draftsman. During the day he works down at the New York Stock Exchange rubbing elbows with the millionaire brokers. Sometimes he comes strutting into class, usually about five minutes late, trying to look like a Livermore or a Durant with about one dollar and twenty cents in his pocket. He keeps away from the women because he still can blush.



JULIUS PEDRESCHI

"Jules"

Architecture

Brooklyn Tech.
A. C. C. U.

"Hello Bill! Pardon the iron grip", that is one of the many expressions used by "Jules", but otherwise he is one of the most ambitious men in class, when he is there. We are proud to have him with us this year and hope the same in the senior year.

"Jules", as we call him, has but one ambition—no it's not what you think,—this is it—to be sure and be ready to get out of the class the moment the bell rings. But don't misunderstand him, while in the classroom he is always working—well—except when he stops. He is a regular chap and well liked by his friends although he does attempt to be brazen. He is good at drawing too, a little slow about it but when he is through he has a drawing to be proud of.

Well, good luck, "Jules".



ALFRED PRIVEN

"Otis"

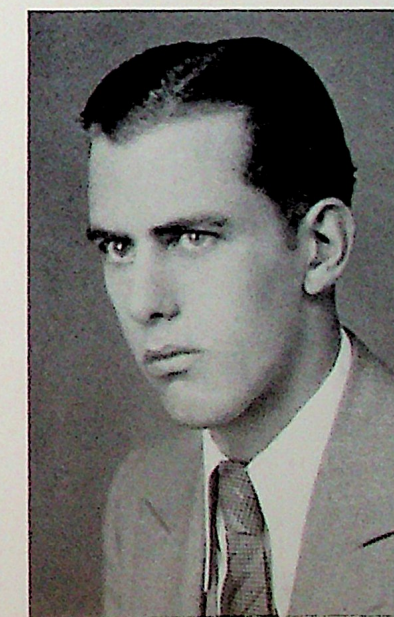
Architecture

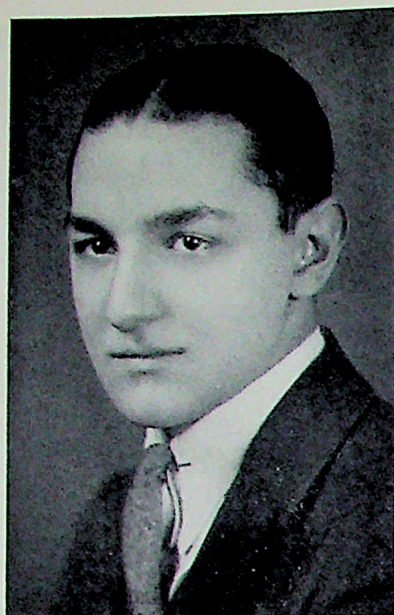
New Utrecht High School
Colby Academy
A. C. C. U.

"Otis" is a happy go lucky fellow. He is nicknamed that because he works for a concern of that peculiar name. His ideas are original even if he gets his details out of books.

Well, speaking about Otis, we think he will make good and reach his goal because he is studious and ambitious. Otis hails from Brooklyn and is not afraid to tell anyone either. He is good natured and believes in sharing and working together with his fellow students. Otis has a hard time keeping the girls away from him. He has a way with them that convinces them he has a fine character and is big hearted.

Here's lots of good luck and success to Otis.





CHARLES PULEO
"Charlie"
Architecture

Bushwick High School

Our modest Charlie—he doesn't say much, but don't let him fool you. Charlie plays the banjo, you see, and it does all the talking for him. Drawing? Oh, yes! He does a little of that too, but the little that he does is darn good.

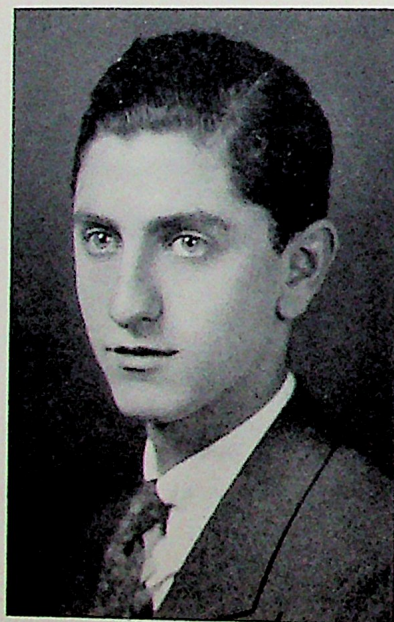
His quiet sincerity and unassuming manner have gained for him a large circle of friends and—lest we forget—made him a favorite with the ladies.

Together, with his ability and sparkling personality, we feel sure that Charlie will show great progress in his advent towards success as an architect.



HYMAN RIFKIN
"Hy"
Architecture

Seward Park High School
A. C. C. U.



As this chap is a six footer we call him "Hy" for short. He is not only a hard working young Architect, but a gentleman and a soldier. He spent this past July at the Citizens Military Training Camp at Plattsburg. He has a Score of his classmates convinced that they missed a great deal by not attending the C. M. T. C.

In school "Hy" is rather quiet, but sometimes you will hear him say something on the spur of a critical moment that will leave your sides aching from laughter. We haven't a doubt that Hy will be a great success in the Architectural field, and that some day he will become as great an Architect as he hopes to become. Good luck to you, "Hy".

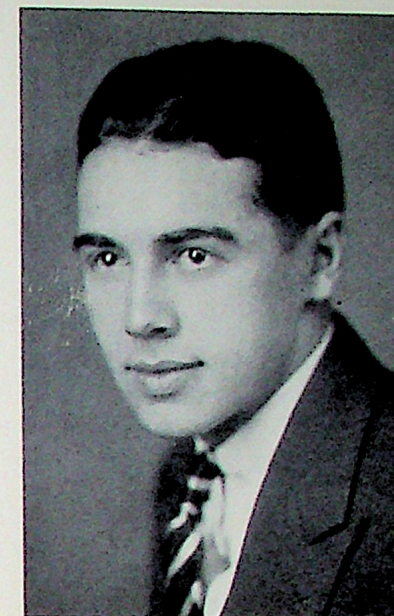


HENRY SACHER
"Snatcher"
Architecture

Yorkville Junior High School

A. C. C. U.; Night Basketball Squad, '31.

"Snatcher" or "MacSnatcher" as he is better known in the estimating class, draw your own conclusion, has several hobbies. Among them are women and his artwork. Between both we find ourselves reluctant to draw a conclusion. He is often speaking of the opposite sex and when asked for his reasons, he lights a Murad and nonchalantly replies, "Just a part of my art study". We doubt you "Snatcher". Why the interest in the girl from the Bronx? Keeping it a secret? We wish you luck, but we do hope you will take more interest in your declining basketball practice. Yes, the visitor from the Bronx must be taking a vast amount of your Sunday afternoon rest. It's a great life if you don't weaken.



JOHN L. SALZONE
"Juan"
Architecture

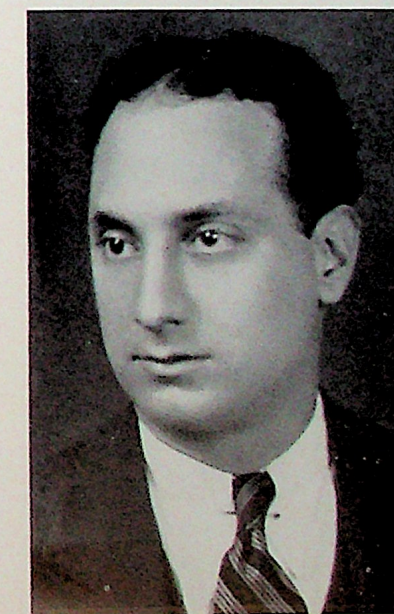
Stuyvesant High School

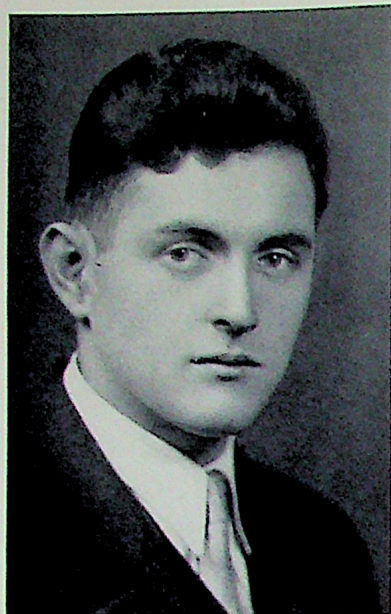
A. C. C. U., Honorable Mention, '30.

"Juan", as we call him, has that quiet unobtrusive attitude that makes him liked by all, and his character is reflected in his work. No fancy frills or elaborate embellishments on "Juan's" drawings—No sir! Simplicity and neatness are the keynotes of his work and his drawings are the envy of the class. His handiwork commanded so much respect that he was given an honorable mention in his second year.

But enough has been said of work. Let's probe a little deeper into his more personal affairs and sure enough—"Voila la femme".

Now we know why he invariably has a wrapt look of happiness and contentment. He's probably thinking of her.





CARL C. SCHMIDT

"Smitty"

Architecture

Brooklyn Tech.

A. C. C. U.

"Smitty" hails from Brooklyn and he doesn't care who knows it. "Slow but sure", is his motto which he follows very nicely in his latest problem. He says that one of his weaknesses is horses. "Horses", we exclaimed. "Yes", said he, "sea horses, you know, the kind for outboard motorboats". This satisfied our curiosity, hoping, of course, that he doesn't try to ride them. Very frequently he goes fishing regardless of the weather. His point of view is, "We must have weather, whether its weather or whether its not." Incidentally, the subject of fish is rarely discussed by him, making us doubt his ability as a fisherman. Here's hoping he has more luck in his chosen vocation than in his "fishing".

CARL M. SCHWARTZ

"Carl"

Architecture

New Utrecht High School

City College of New York

A. C. C. U.

A potential Architect. He knows his rules and angles and has the cutest little mustache you ever saw. His heart swells with kindness as the tide does at the beckon of the moon, only, as it sees fit. Carl, as naturally as anyone has a temper, I warn you don't get him steamed, just kid him along and you will be alright. He is only the size of a fragment, but he has big ideas. One of them is to build a flea house. God's gift to women, those are just a few of his accomplishments. Sounds attractive, eh? Bound to be a success and an asset to any home.



FREDERICK M. SHEFFIELD

"Fred"

Architecture

Carson Long Military Academy

Class Secretary, '31; Students' Council, '31.

The fair haired and pleasant faced gentleman pictured alongside is none other than our esteemed class secretary, whose quips of wit and humor provide a means of mental relaxation from our brain-wracking studies, (well!—they are pretty hard studies anyway).

Fred has led a somewhat eventful life. We have reason to believe he is a staunch advocator of the proverb "Variety is the spice of life". At a tender age he enrolled in a Military Academy, but soon he learned that the military discipline was entirely foreign to what he had anticipated, so he altered his course of career towards an Architectural goal. Now he has obtained a position with an advertising concern and is meeting with fair success in that capacity.



ROBERT SILVERMAN

"Bob"

Architecture

Stuyvesant High School

A. C. C. U.

Bob resembles the great Architects in one respect, he, also is a lover of the fine arts. In other ways he resembles the more ordinary mortals, his fellow students. The reason he likes the estimating class so well is that he suffers from insomnia and he can do his sleeping one night at least.

Be that as it may, he shows great promise in his designing. He believe that simplicity is beauty. We wonder whether that's the reason he omitted the entablature on his first problem. Mr. Doubting Thomas suggests that Bob was afraid he might get it wrong and left it out for that reason.

Mebbe he's right.





IRWIN GEORGE SOICHER
"Herk"

Architecture

Harlem Evening High School
City College, Eve.

Alias:—The man with the green hat, ambitious, amicable, and helpful. Ambition is to graduate every college in N. Y. C., except N. Y. U., and construct a building twice the size of the Empire State Building. A great lover of the outdoors; he spends his spare time on long jaunts! Has a positive yen for gymnastics and self development. Anti-believer of medicines for cures. Is a scoutmaster and prides himself on doing his share among the poor class in developing real men and above all, gentlemen. Has little or no desire to mingle with the fair sex, says they interfere with more enjoyable hobbies. Reads the Stock Quotations and owns a few shares which have him eating apples for lunch.



ALFRED G. STRASSBURG
"Freddie"

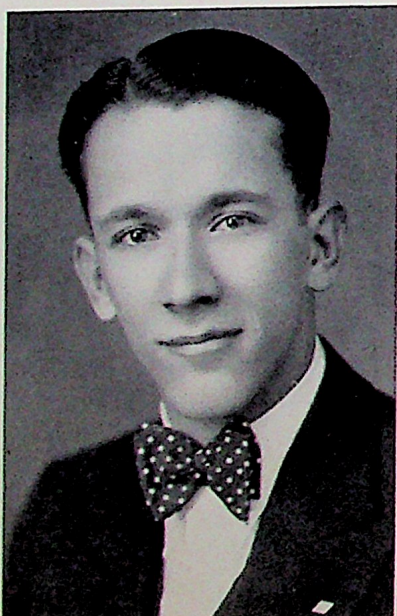
Architecture

George Washington High School
New York University

Football, '31; Handball, '31.

Between Cooper Union and New York University, Freddie is certainly getting good preparation for being an Architect. From New York University to Cooper Union, from Cooper Union to New York University, you may be getting bored, listening to the names of these institutions, but believe it or not that's his daily and nightly grind in his quest for Architectural knowledge. However, he indulges in sports too. His hobbies are handball and football. Next year he hopes to make the varsity football team.

Although he happens to live as near as Times Square, he manages to come late once in awhile.



SOL STRASSLER
"Duke"

Architecture

Thomas Jefferson High School
A. C. C. U.; Jr. Prom. Comm., '31; Baseball, '29.

Trying to enumerate all of "Duke's" virtues would be a lengthy task, so, the best thing to do is to pick those which are most worthy of notice. You know, Duke, is one of those fellows you can depend upon. If he takes your best girl out, you can be sure that she'll feel the same, if not better, towards you, the following day. He is absolutely dependable. He may indulge in a little excess verbiage, but what's a verb or noun between friends who don't mind listening anyway. Everything is neat about him—except his drawing, and we're still wondering what inspired him to become an architectural draftsman. But, who knows? Only time will tell.

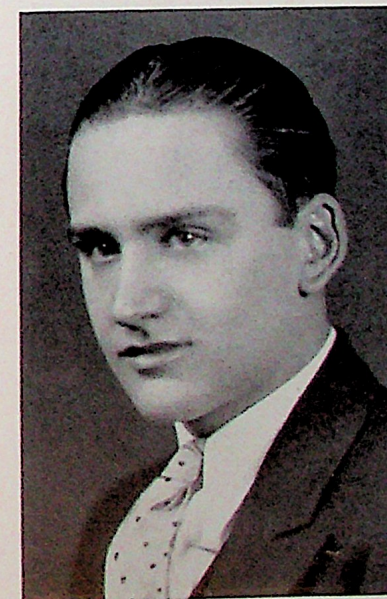


THADDEUS TULISZEWSKI
"Tuli"

Architecture

Brooklyn Technical High School

Born and reared in that flourishing part of Brooklyn better known as the "Garden Spot", alias "Greenpoint", Tuli was given every opportunity to be imbued with an unconquerable spirit to strive for bigger and better things. With unerring precision he is forging ahead closer and closer to his goal. At present his life's greatest ambition is to plan a structure to more than surpass the present Chrysler Building; and it cannot be said that he is not striving to achieve this ambition, as his work is that of a meritorious nature. With a character as sterling and rugged as his is, the successful attainment of his plans is inevitable. Here is luck, Tuli.





JOSEPH TUMOLO

"Joe"

Architecture

Brooklyn Technical High School

A. C. C. U.

Joe is a modest and unassuming young man. Yet if more students had Joe's school spirit, Cooper Union would have a greater ranking among our colleges. Although he hasn't found time to personally partake in outside school activities, Joe has given his whole-hearted support, both financial and spiritual, to all school functions. No alibis or excuses from Joe, whether you tell him there will be a class or club meeting, or ask him to purchase tickets for a Cooper affair.

He is of the type that makes honest and upright citizens, capable and efficient leaders in their chosen field, and reliable and charitable men.

We look for Joe to go a long way up the ladder of success.

HARRY WEINSTEIN

"On time Harry"

Architecture

Stuyvesant High School



"On time Harry" is a graduate of Junior High School Sixty-Four and of Stuyvesant High School. He is what we can really call a true local student. Born a few blocks from Cooper Union, he attended elementary, junior, and High Schools which are situated near Cooper Union. At present he is employed in an architect's office in the Bronx. His employer claims that he is by far the best draftsman that he had for quite some time.

Harry appears to be a quiet member in his class, but as we all know, a quiet person is almost always the one that learns the most.

Harry is looking forward to the day when he will receive his R. A. and be able to open his own office.

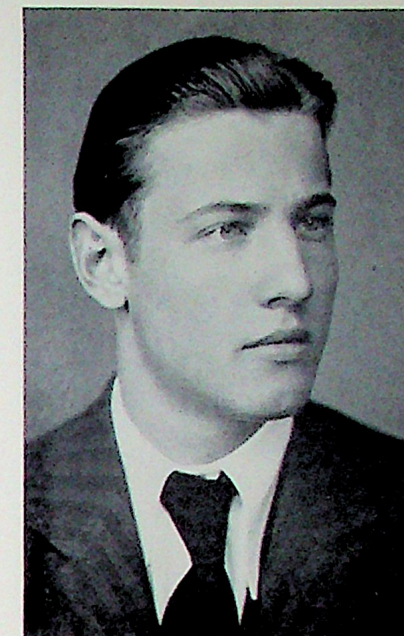


FELIX WIELONSKI

"Tom"

Architecture

Bushwick High School



This is to introduce Felix, who is better known amongst his friends as "Tom", a boy who can very easily become chummy with everyone. Before entering this institution Tom was located at Bushwick High School, where he labored for four years. Since his first year at High School he cherished the hope of someday practicing Architecture for himself. His pet hobby, if you will call it that, is to emulate radio crooners of note, thereby making himself a favorite with the fair sex. On day when asked for his opinion of love, he answered, "Love". Tom is also considered a versatile athlete, being equally competent at baseball and basketball, and as such has been a member of the Polish Falcons, where he acquitted himself favorably.

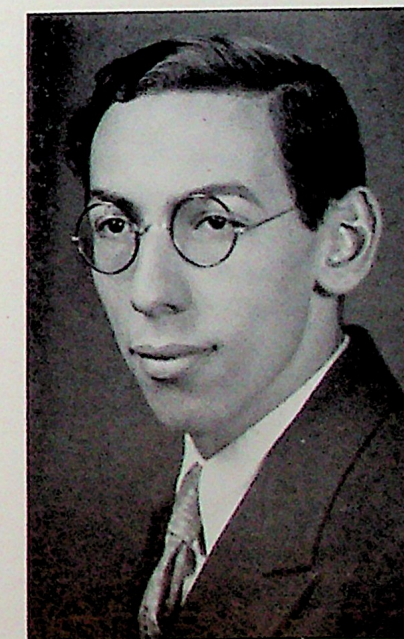
SAMUEL ZWILLING

"Sam"

Architecture

Hebrew Technical Institute

Tennis, '31; A. C. C. U.



His name and his picture you see here
That's really all you would know,
As his past is all gone
We'll go from here on
And see what the future will show.

Just a word about his ambitions:
Architecture, we know is his aim;
We hope he goes far
And climbs bar by bar,
Right up the ladder of fame.

There is much more we could tell you
Of other things he might do,
But we can't pretend,
So we will just end
By giving "U" our fondest adieu.



Institute of Technology



President

JOHN J. LANIGAN

Vice-President

JACK BALIFF

Secretary

A. RAPISARDA

Treasurer

THEODORE KALISHER

THE JUNIOR CLASS OF THE INSTITUTE OF TECH. OF '31 apart from being a representative Junior Class has certain distinguishing characteristics that make it stand out from classes of previous years. The most outstanding characteristic of the class is undoubtedly the ability of the members of the class to survive thru the contest in the freshman and sophomore years. As you all know the courses in the Inst. of Tech. may be considered as elimination contests spread thru a period of four years in the course of which time those students considered undesirable are weeded out, leaving the more fortunate classmates to carry on.

This class distinguishes itself in, that more students have survived than in those classes of previous years. It seems that a larger percentage of this class stubbornly refused to be eliminated, displaying a dogged spirit of perseverance when potential disaster in the form of back and future homework loomed ahead.

The class has successfully in the previous years carried on social functions in the form of class dinners and dances. The Junior Prom which in previous years has been the nemesis of the Junior Classes and characterized by incurred deficits was wisely avoided after ample proof was given that it would not be a success. However, the day class combined with the night class and held a successful "Prom".

No matter what is said about one particular class, it may be said rightfully and with pride that the members of any Junior Class of the Institute of Technology are gentlemen of the highest standards of character and ability.

THE HISTORIAN.

One Hundred Sixty-eight



JACK BALIFF

"Jack"

Λ Σ K

Mechanical Engineering

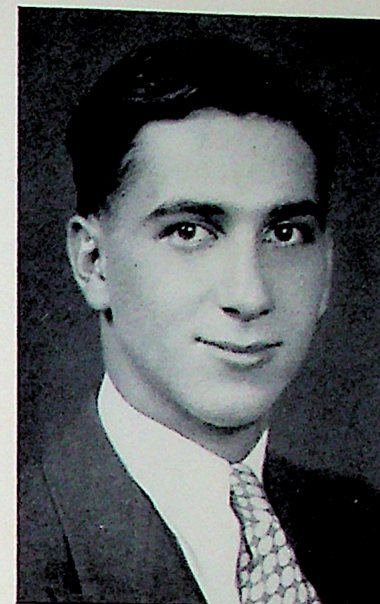
Tech.

Stuyvesant High School

A. S. M. E.; A. S. T. M.; Class Pres., '29; Class Vice-Pres., '31; Student Council, '29, Sec'y, '30, Vice-Pres., '31; A. A. Exec. Comm., '30; Pioneer Staff, '29, '30; Pi Sigma; Junior Prom Comm., '31; Math Club, Rifle Club.

Jack is going to be a mechanical engineer. The obvious reason seems to be that he likes to handle a monkey wrench and get messed up in grease. He should have studied electrical engineering because magnetism (especially personal magnetism) is his long suit.

But besides being active in the pursuit of the fair (or unfair) sex and doing the required homework, Jack finds time to partake of most of the activities of the Tech.



ERIC BEHN

"Eric"

Ω Δ Φ

Electrical Engineering

Tech.

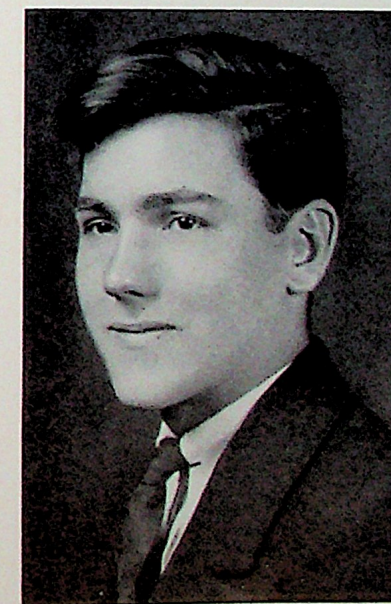
Alexander Hamilton High School

A. I. E. E.; Math Club; Tech. Varsity Basketball, '30; Class Basketball, '30; Class Sec'y, '30; Student Council, '29; Scholarship, '30.

Eric Behn is that demure gentleman who hails from Cypress Hills and whose affable smile decorates these pages.

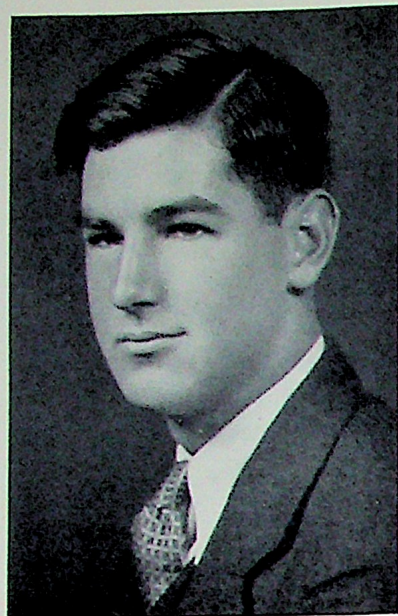
Aside from being an ornament to the class, a source of joy to beauty lovers, and a consolation to distraught instructors, Eric is a mighty athlete. Wasn't he the captain of '32's basketball team for the last two years?

Like all mortals Eric has his human moments. His industry sometimes vanishes; he is prone to gamble, and it is whispered that it was he who led Mae West astray.



One Hundred Sixty-nine





CHESTER BRADSHAW

"Chet"

Ω A Φ

Electrical Engineering
Tech.

Fordham University

Math Club; A. I. E. E.; Scholarship, '30.

Chet is that likeable chap who hails from the wilds of Highland Falls, N. Y. He is seemingly shy and modest but is always willing to learn, in fact very frequently you can find him watching the specimens "necking" in the Materials Testing Lab. He is one of those smiling boys who although quiet, usually has a suggestion to make when the necessity for one arises. It is rumored that he is quite an athlete up in his home town, playing football and basketball, but it's only a small town.

We are sure that if he continues to tackle things the way he has been, he will just have to succeed. Our best wishes go with him.

DAVID BRIANSKY

*"Dave"*Electrical Engineering
Tech.

Brooklyn Technical High School

A. I. E. E.; Math Club.



Mr. Briansky whose forefathers did not arrive on the Mayflower traces his lineage to the distinguished Trilobites, dominant during the Ozarkian and Cambrian periods of the Paleozoic era.

Mr. Briansky is very modest.

Mr. Briansky has not adopted the feminine practice of smoking and drinking. His favorite outdoor sport is jay-walking, and he is hopelessly addicted to theoretical physics, which occupies all of the time he can spare from his studies which is little due to the fact that Dave takes great delight in finding obscure and difficult ways to do easy things.



WILLIAM BURNS

"Bill"

Σ A II

Electrical Engineering
Tech.

Port Washington High School

Math Club; Rifle Club; Interclass Basketball, '29, '30; Student Council, '29.

Bill is one of these fellows that you meet in a lifetime. He has a pleasing personality, and is a ready wit and humorist, which has gained for him a wide circle of friends. He is a ready partner to anything, be it hard work or a good time, and can always be relied upon in an emergency.

Bill is dark, of average height, and the answer to many a maiden's prayer. He hails from Port Washington, Long Island, which, judging by the type of fellow that Bill is, must be a great place.



HERMAN COTTONY

*"Doc"*Electrical Engineering
Tech.

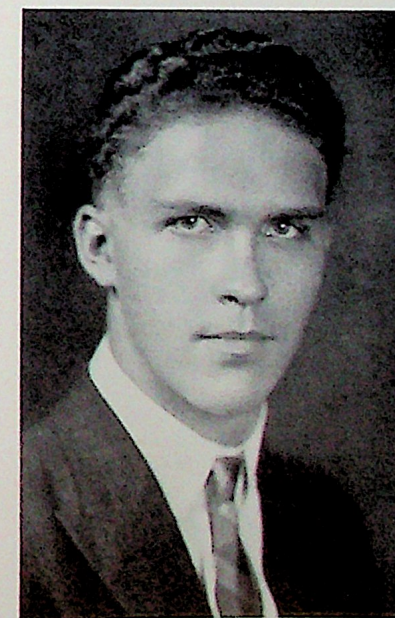
Stuyvesant High School

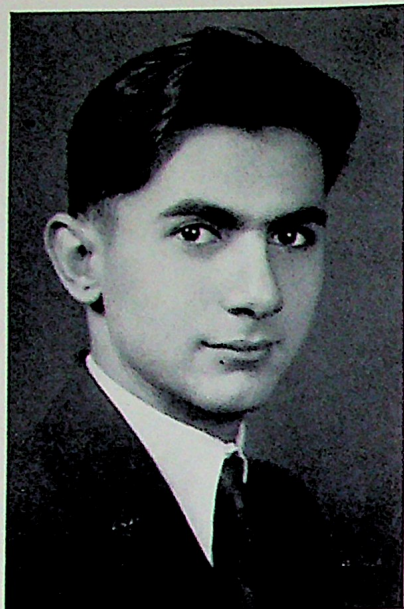
A. I. E. E.; Pioneer Board, '30; Interclass Basketball, '30; Math Club; Scholarship, '29, '30, '31.

Herman, the great, seems to have been endowed by the goddess of fortune. He is possessed of the mental ability of Demosthenes and the strength of Hercules and Atlas. However his greatest asset is his Appollinarian features, for they sure get the members of the opposite sex.

Besides all these enviable traits he has a sense of art appreciation. Ask him about any of the Broadway shows if you would know their comparative merits. His critical eye sees more than do those of the best Broadway experts.

Oh! Yes! Herman is just full of brilliant ideas.





NUBAR DINKJIAN

*"Dink"*Civil Engineering
Tech.

West New York High School

A. S. C. E.; A. S. T. M.; Student Council, '31.

A quick mind and intense concentration mark Dinkjian as an engineering student.

A sense of humor, mischievous spirit and cheerful disposition combine to make an optimist of this West New Yorker.

Dink is called lots of other names not mentionable herein, because of the fact that unlike his classmates he is addicted to not only having homework done on time but also to the habit of doing more work than is required.

Our poor belabored friend is a Civil Engineer and we suspect that the reason that he buries himself so deeply in his studies is his bashfulness and what seems almost fear of the weaker, fair, unfair, or, what you will, sex.

EMANUEL DRAGO

"Manny"

A S K

Civil Engineering
Tech.

Curtis High School

A. S. C. E.; A. S. T. M.; Baseball, '30; Ass't Baseball Mgr., '31; Student Council, '31; Scholarship.

In spite of the fact that he hails from Staten Island, Drago has achieved an enviable record as a scholar. Starting off with a scholarship he soon showed the class his ability as a devourer of difficult problems. No math problems hold any terrors for him and chem unknowns lose all their mysteriousness under the guidance of his skillful hands. Not contented with scholarly achievement he determined to invade the athletic field. At the end of his first season on the baseball team he not only earned the much coveted "C" but became assistant manager of the team for 1931.

WILLARD T. EDDY

"Eddie"

Σ A II

Mechanical Engineering
Tech.

East Orange High School

A. S. M. E., Sec'y, '31; Student Council, '30, '31; Ass't Basketball Mgr., '31; Math Club, Treas., '30; A. A. Exec. Comm., '31; Rifle Club, '29, Sec'y., '30, Treas., '31.

Not only is Eddie one of the most active men in the class, but he is also near the top of the scholastic list. How he manages to give so much time to the basketball team and the A. S. M. E. and still get the marks he does is a mystery. Maybe it is because he can do so much in so little time. Or perhaps it is because we've never seen him talk to any of the artists around the *Pioneer* Office and the Supply Store. He takes everything he does seriously and never seems to waste a second.



ALVIN MARKS GINSBERG

*"Al"*Electrical Engineering
Tech.

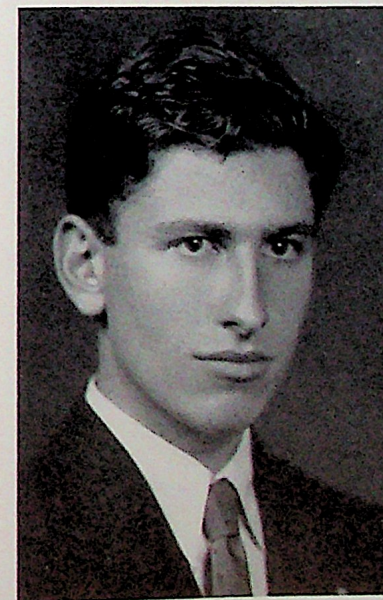
Brooklyn Technical High School

A. I. E. E.; Math Club.

Forethought of the wide and universal circulation of the CABLE and the extremely critical attitude of its subscribers has prompted me to consider with the utmost caution the release of information of personal concern.

After days,—nay, weeks of meditation, and diligent study of the archives of the ancients I find that:

Learned men of the past who have proclaimed their greatness before their contemporaries have met only with derision and contempt, while they who preserved their pearls of wisdom for posterity have either been regarded with awe and admiration, or else have been left in merciful obscurity. So let it be with me.





LOUIS D. GOLDFINGER

*"Lou"*A M Σ

Chemical Engineering

Tech.

New Utrecht High School

Student Council, '29, '30; Math Club; A. I. Ch. E.; Class Basketball, '30.

Possessing all the necessary qualities such as initiative, self-confidence, excellent reasoning power and the ability to err at the proper moment except in quantitative analysis, Lou is undoubtedly one of our most promising engineers, i. e., like many others, he promises much and does very little.

In the laboratory and classroom Goldfinger is most indispensable answering questions, fixing apparatus, so that it never more shall be of use, and giving suggestions that cannot be used.



HAROLD GREBE

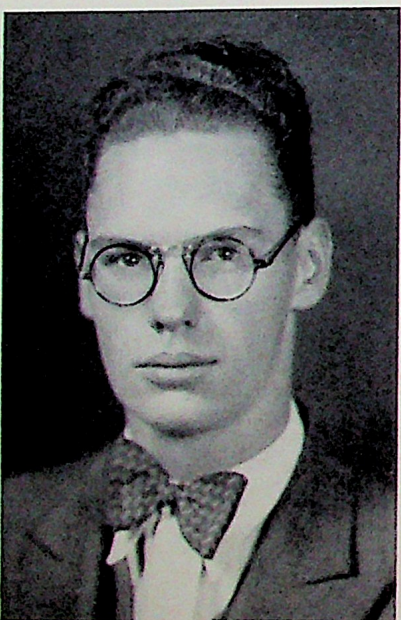
"Grebe" Σ A II

Electrical Engineering

Tech.

East Side High School, Newark

A. I. E. E.; Math Club; Rifle Club.



Harold is in short, a good student with a cheerful disposition, will try anything once. But you should see the girls run away from him. Further, he is an inveterate pipe smoker. If you see a pipe and a cloud of smoke you can bet Harold is somewhere about. If you want cooperation and work, look up Harold. Ready for anything, anytime, anywhere, maybe.

Tall, slim, of fair complexion, and light brown hair, is Harold, in other words, he is a model for hair oil ads.

Here's to Harold, may he live long and happily. We know he'll be a success.



MAURICE GROVES

"Lefty"

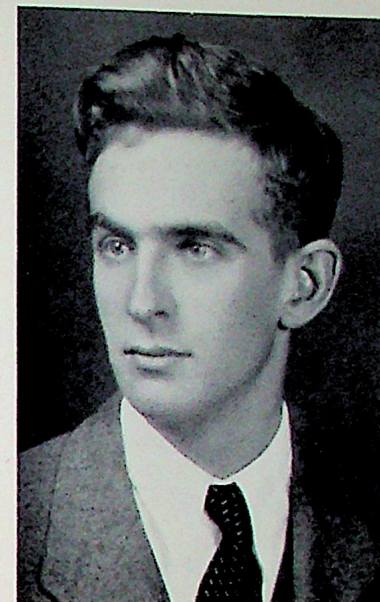
Civil Engineering

Tech.

Roxbury High School

Rifle Club, Rifle Team; A. S. C. E. Basketball.

While taking observations in the laboratory "Lefty" has often stopped proceedings by shorting out "dinky". Nonchalantly he explains to the horrified members of squad two that the reading is eleven. He is the envy of the entire C. E. section since he always manages to get in his lab. reports on time. What a man.



FELIX A. INSLERMAN

"Felix" Σ A II

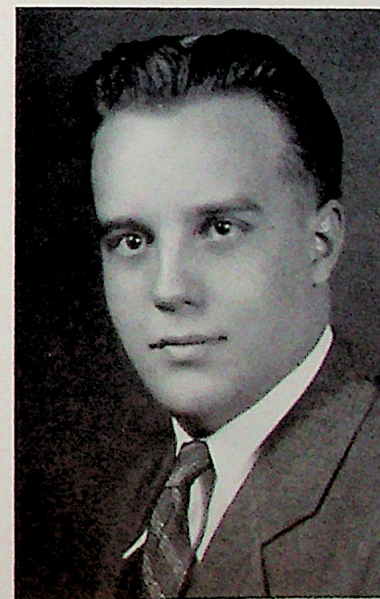
Electrical Engineering

Tech.

A. I. E. E.; Math Club, Pioneer, '29, Managing Editor, '30, '31; Rifle Club.

Felix is to the *Pioneer* what Adonis was to Venus and by that we mean indispensable. Snatched from the Freshman class to be made managing editor, he has kept that post for two years and has maintained the high standards of the publication. (Buy a copy some day and be convinced.)

Felix is the center of that little group down in the drawing-room which is always in a state of turmoil, and it is Felix whose funny little chuckle provokes that roar of laughter from his neighboring fellow students.





THEODORE KALISHER, JR.
"Ted"

Λ Σ K

Electrical Engineering

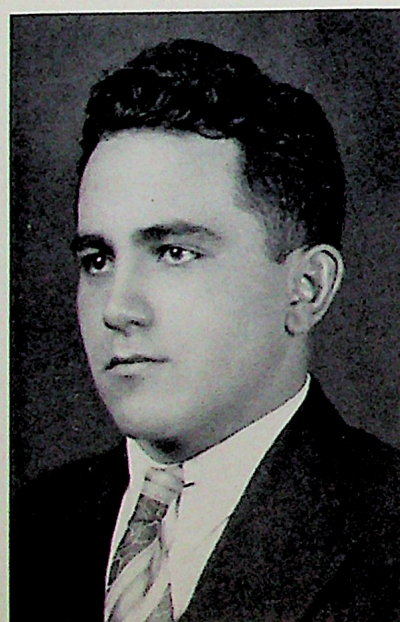
Tech.

Kearny High School

A. I. E. E.; Math Club; Class Treas., '31; Rifle Club, Pres., '31; Rifle Team, '29, '30, '31, Treas., '30, Ass't Mgr., '31; Scholarship, '31.

Ted is a short, blond fellow who hails from distant Lyndhurst, N. J., and if he is any indication of the sort of people residing there, it must be a good place in which to live.

Besides being an excellent student, Ted is active in extra-curricula activities among which may be mentioned the Rifle Team, the Rifle Team, and the Rifle Team. He has occupied a position on the latter for the past three years and ranks among the best.



HARRY KESSLER

"Rough-house"

Mechanical Engineering

Tech.

Morris High School

Kessler is one of the men you can depend on. He is always doing just what is expected of him. Unfortunately I cannot say just what is expected, but this I can honestly say, "His work and play is the work and play of a natural born leader." So much so that the activities and the destiny of 25% of the third year Mechanical Engineering section depends on him. (Ed. NOTE: There are only four in the section.) His ingenuity and originality are evidenced by the fact that this year he discovered and named the Kessler "Wash basin curve". That the foregoing is all true is based on the intuition and first hand knowledge of his friends, the author.

MILTON LANGHAM

"Langham"

Electrical Engineering

Tech.

Rye Neck High School

A. I. E. E.

Langham is one of those quiet lads who seem, nevertheless, always to be on hand when their classmates are in need of assistance. Besides finding time for his school work, Milton has a keen interest in certain outside hobbies. The people of Mamaronck can boast at least one fond collector of ancient automobiles. In addition, Langham is always prepared to speak from experience on the behavior of the spherical solid commonly known as the golf ball.

Apparently a membership in the Student Branch of the A. I. E. E. has not increased Milton's skill in measuring the vena-contracta of a discharging water column. However, an unexpected shower-bath cannot dampen the ardor of this budding engineer.



JOHN J. LANIGAN

"Jack"

Λ Σ K

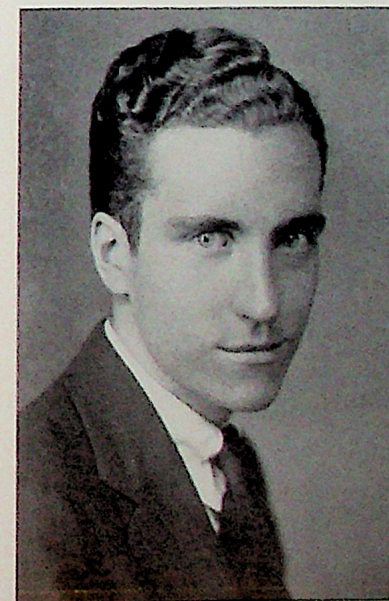
Civil Engineering

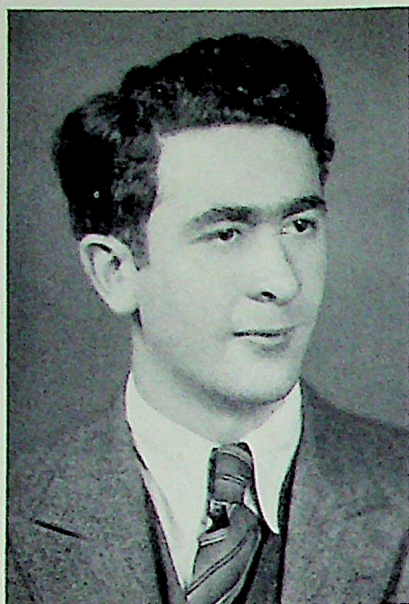
Tech.

St. Francis Xavier High School

A. S. C. E.; A. S. T. M.; Newman Club, Pres., '31; Class Vice-Pres., '29, '30; Class Pres., '31; Junior Prom Comm., '31, C. U. S. C., '29; Corresponding Sec'y, '30; Math Club; Class Basketball, '29, '31; Rifle Club; Scholarship, '29, '30, '31; Gold "C" Award.

Way back in 1928, the Tech received more than its share of good fortune, when John J. registered for the E. E. course. After a year at Cooper, Jack decided to have no more to do with E. E.'s, and hastened over to the Chem's, where he was received with open arms. After passing one year amongst the numerous odors of the Chem Lab, Jack longed for the great outdoors and fresh air. So we find him among us, in his Junior Year, trying to learn Civil Engineering.

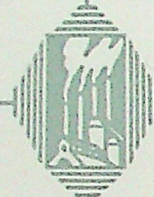




JOHN LEVY
"Johnnie"
Chemical Engineering
Tech.

East Side Paterson High School
A. I. Ch. E.; Class Basketball, '28, '29, '30.

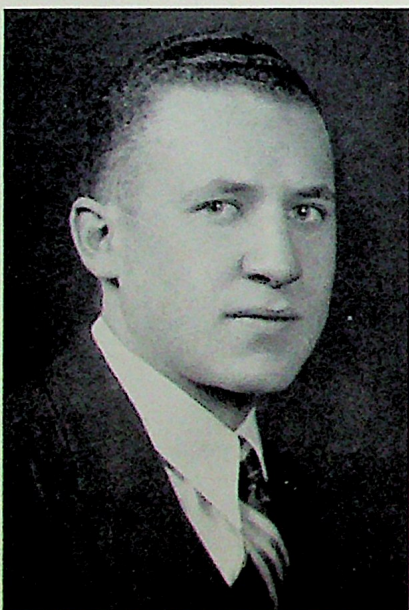
John had a little trouble in finding his end points at the beginning of the year, but he had no trouble in finding that the Supply Store was the best place to meet the art studes. That's why we found him and a certain Joe P. down there daily from nine to nine forty-five. In spite of this handicap, however, John manages to do well (?) in his work. We like him for his ever ready quip and for his ability to wise crack with the profs. He has his serious moments, though, and is always willing to help "Kos" or Herman V. with Calc. (or, preferably have them help him).



SYDNEY LEVY
"Sid"
Mechanical Engineering
Tech.

Alexander Hamilton High School
A. S. M. E.; Student Council, '31; Inter-Class Basketball, '31.

Sid is probably the most conscientious Junior at Cooper. A very talkative young gent he is, but fortunately his talking is more instructive than noisy. His greatest asset is an inexhaustable supply of wit and humor that compels his fellow students to like him. Sid is always right up in front and never lets anything go by unquestioned, if there seems to be any doubt about it. In laboratory work his results are always perfect. He is another of those brave pioneers who venture forth from the wilds of Cypress Hills in their struggle for knowledge. He should make a great mechanical engineer and we are all sure he will.



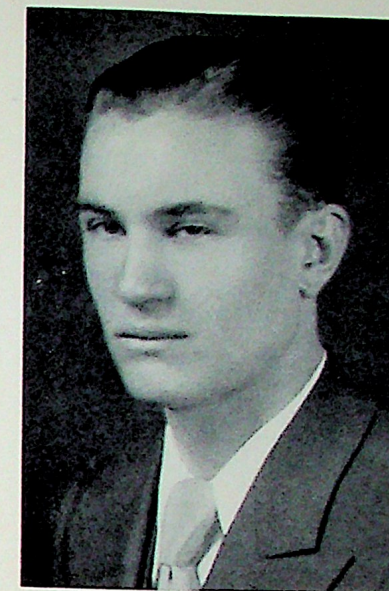
ALFRED MASTROPOLE
"Al"
Electrical Engineering
Tech.

George Washington High School
A. I. E. E.; A. S. T. M.; Math Club; Rifle Club.

Al is a very quiet chap who seldom speaks unless he is spoken to. However, when he does say something, you can rest assured that it is correct. He is well liked because of his sympathetic nature and is always ready to give a helping hand. He possesses that valuable asset of being broad-minded.

Little can be said about Al because little is known of him due to his silence. However, we occasionally find him talking about automobiles or reading a text on internal combustion engines. From these observations we can conclude that he is interested in automobiles.

As a parting word of advice we would say, "Al, don't be so backward."



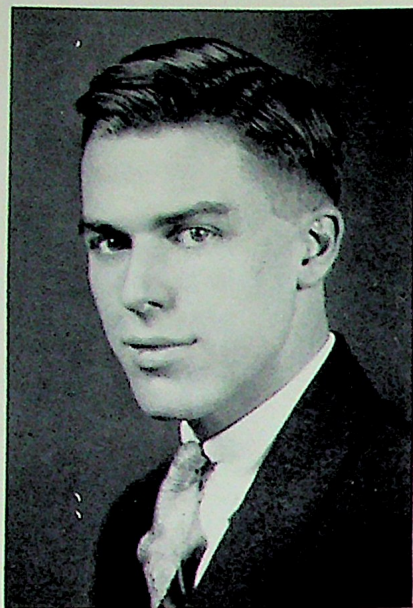
AUGUST B. MUNDEL
"Gus"
A S K
Electrical Engineering
Tech.

Stuyvesant High School
Bits of Science Editor, Pioneer, '29, '30, '31; A. I. E. E., Sec'y, '31; Tech Editor, '31 Cable; Math Club; Rifle Club; Student Council, '29, '31; Class Sec'y, '29; Scholarship, '30, '31; Class Basketball, '31; Ex Post Facto, '32.

Gus always finds time to do more work, in spite of the fact that he does so much already. His extra work however, does not interfere with his scholarship, in which he stands out to such an extent, that he has become a bureau of General Information.

He seems to be the particular friend of Lady Luck, and here's hoping she doesn't switch boy friends, Gus.





GEORGE NEUSCHAEFER

"George" $\Lambda \Sigma K$

Electrical Engineering

Tech.

Evander Childs High School

Pioneer Tech. Board, '29, '30; Tech. Circulation Mgr., Pioneer, '31; A. I. E. E.; Math Club, '29, '30, '31; Rifle Club; Scholarship, '31.

George, as all his classmates know, is the possessor of an unparalleled good-natured personality and disposition. It is this combination which makes him dear to the hearts of all those privileged to associate with him. His one hobby is photography but George is camera shy. Most pictures of him show an icy stare, which he assumes, to try the "metal" of the lens.



WILLIAM J. O'DONNELL

"Bill and O'Dee" $\Lambda \Sigma K$

Civil Engineering

Tech.

Stuyvesant High School

A. S. C. E., Sec'y, '31; A. S. T. M.; Student Council, '30; Tech Circ. Mgr., Cable, '31; Math Club; Rifle Club; Sec'y A. A., '31; Class Treas., '30; Newman Club, '29, '30, Treas., '31; Pioneer, '29, Tech. Circ. Mgr., '30; Soph Dinner Comm., '30; Scholarship, '29, '30, '31; Gold "C" Award; Ex Post Facto, '32.

Bill is one of those fellows who finds time to give service and does give service. This is evident by looking at the above list of activities in which he has participated. Bill besides being active socially is very active scholastically. The fact that he has won scholarships three years in succession proves this.



JOSEPH PANEBIANCO

"Pane" $\Omega \Delta \Phi$

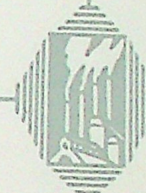
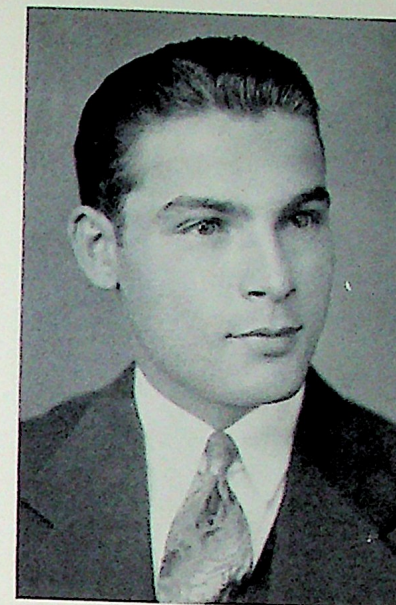
Chemical Engineering

Tech.

New Utrecht High School

A. I. Ch. E.; Math Club; Student Council, '29.

His mother wanted him to go to college, his father wanted him to go to work, so we find Joe at Cooper Union. His ability to discuss fluently any subject that he knows little or nothing about has been envied by us for three years. During that time Joe has remained the center of all class disturbance. All noise seems to radiate from him, but this does not obey any laws of physics since it varies as d^2 not as $1/d^2$. His main ambition in life last year was to "make" the art school as a whole, but due to the fact that the year ended in May, Joe had to be content with 95% of the school. But cheer up, the other 5% all weigh more than 200 lbs.



ROBERT E. POLLOCK

"Bobbie" $\Lambda \Sigma K$

Civil Engineering

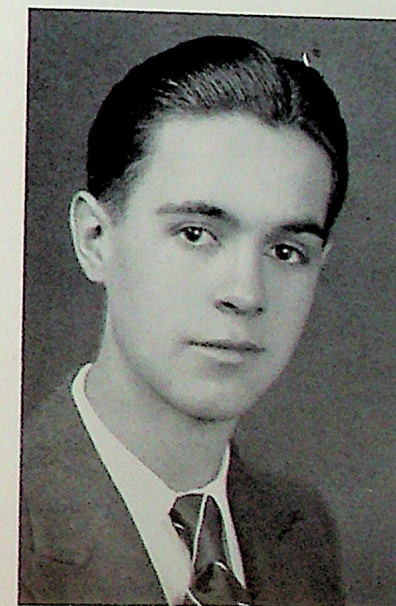
Tech.

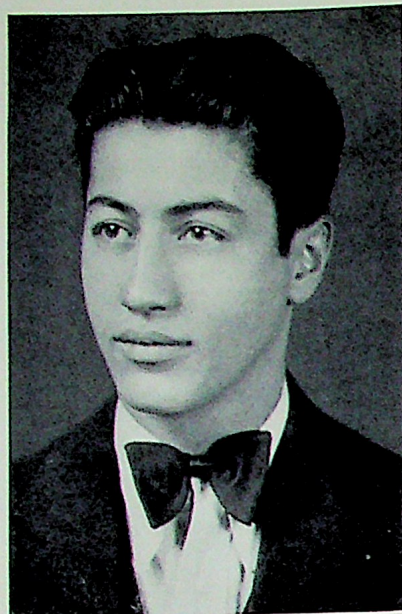
Townsend Harris Hall

Newman Club; Math Club; Interclass Basketball, '30, '31.

Bobbie, after a rather inconspicuous start, has finally succeeded in creating a reputation for himself around Cooper. Whenever, an affair is arranged for, Bob is first consulted so as to make certain that the unfair sex will be well represented, and that dancing talent will not be lacking. In fact, a rumor has recently been circulating to the effect that Bobbie (yes, they call him Bobbie) has at least one "dog" on every block.

Besides acting as official class dogcatcher, Bob is rather proficient at telling jokes, doing Calculus problems (sometimes), and solving geometry puzzles.





ALEXANDER RAPISARDA

"Al"

Electrical Engineering
Tech.

Stuyvesant High School

Rifle Club; Pioneer Tech. Board, '30; Math
Club, Class Sec'y, '31.

As we know him, Al is a modest young man, liked by everyone, and interested in almost everything. His interest in the fair sex is confined to Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday of every week. He is happy, always smiling, and can't see the sorrowful side of life so he can't believe there is any. He tells us that dancing is his favorite pastime.

It is universally agreed that science is merely a thorough application of common sense. That is one reason why we can't picture Al as a failure in any scientific field.

But engineering is of secondary interest to the "Don Juan" of the Junior Class.



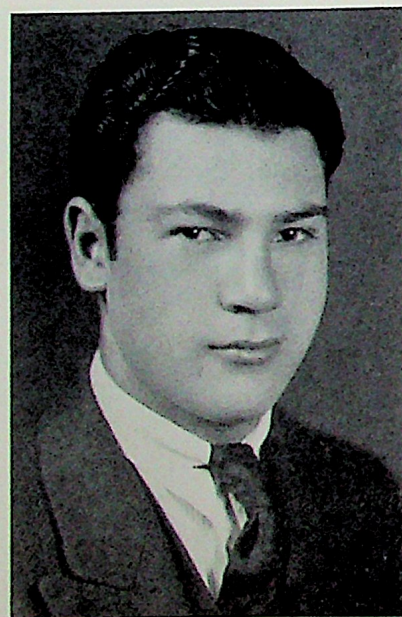
GEORGE SHEMIN

"George"

Tech.

Electrical Engineering

Alexander Hamilton High School

Vice-Pres., A. A., '31; Varsity Basketball,
'30, '31.

George is an excellent swimmer and invariably finds himself in the swim for scholastic and athletic honors. A quiet chap and liked by all who know him, he is always willing to lend a classmate a helping hand.

In these dry days of prohibition George has the knack of getting the wet job in the hydraulics lab.

When playing basketball he always manages to have a necking good time while his opponent is usually wondering whether it is a basketball game or a wrestling match.

With a permanent wave and a handsome face we still can't see how he has escaped the wiles of the art school damsels.



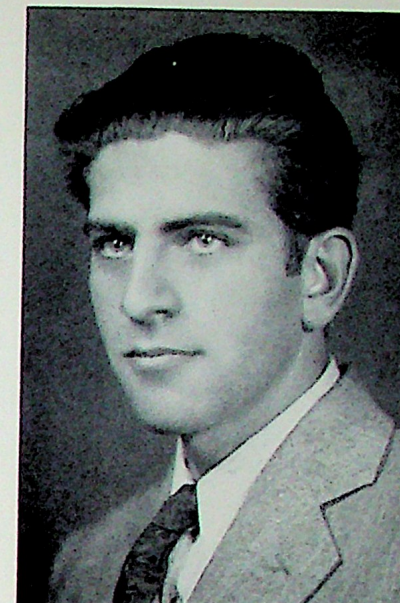
BERNARD H. SILBERMAN

"Berny"

Electrical Engineering
Tech.

Morris High School

A. I. E. E.



Silberman is a fellow who works hard but knows how to relieve the strain—He gets bright ideas. His latest one was born at a not unusual occasion, namely, at the moment of blowing out a pair of fuses. He calls it his "Protective Device for Overworked Students". Its operation is very simple, when the student is overloaded he just trips out. That would be grand since most of us would then be selling "Unemployed Apples".

We can't say exactly how much time is being given to the perfection of this apparent blessing in disguise. We do know that Silberman gives time unstintingly to his class work, a habit which is materially cutting open the way to a profitable future.

JOSEPH TANNENBAUM

"Popeye"

Electrical Engineering
Tech.New Utrecht High School
Math Club

Twenty long years ago, in 1910, a little star rose in the heavens and pushing boldly among his betters, proclaimed for the world to hear, a great one is born upon the earth. And the small and the near great turned baleful glances in his direction and spoke to each other across the void. Noisy little upstart, they agreed.

But the truly great Tyndall 30,000,000 miles away, and Joule, a little further, sent him encouraging smiles through space and asked, "Who are you, little scamp?" Curtsying, he answered, "I am Joseph Tannenbaum, high school graduate, public school graduate, you wait and see, you wait and see." And he danced harder than ever.





JOSEPH WALLACE

"Dutch"

Electrical Engineering

Tech.

De Witt Clinton High School

Pioneer, '30; Math Club.

Dutch is the kind of fellow who is much devoted to his studies, with the exception of those which have a scientific or mathematical bearing, and those which are of an academic nature. To give you a picture of what he is like, it might be said that he is industrious, intelligent, generous, and amiable. It is generally agreed that he would be considered handsome, but for one thing, his face, which may be seen above, quite unconscious of what is being said here right under his very nose.

Dutch is much sought after. There are, in fact, eight states, which have issued warrants for him. No matter what state he travels in, his head always remains in the same state, the solid state.



ABE ZEITZ

"Abe"

Electrical Engineering

Tech.

Boys' High School

A. I. E. E.; Math Club; Student Council, '31; Basketball, '29, '30, '31.



Abe is an honor student. He has the honor of being one of the best basketball players ever to play for Cooper Union, and also has the honor of being the laziest student in the school, past, present, or future. He ought to buy himself an alarm clock to keep himself awake during classes.

He is a great pet to have around. Every home should have one. Sleep with him for one night and he'll tell you all his troubles. He ought to write to Doris Blake.

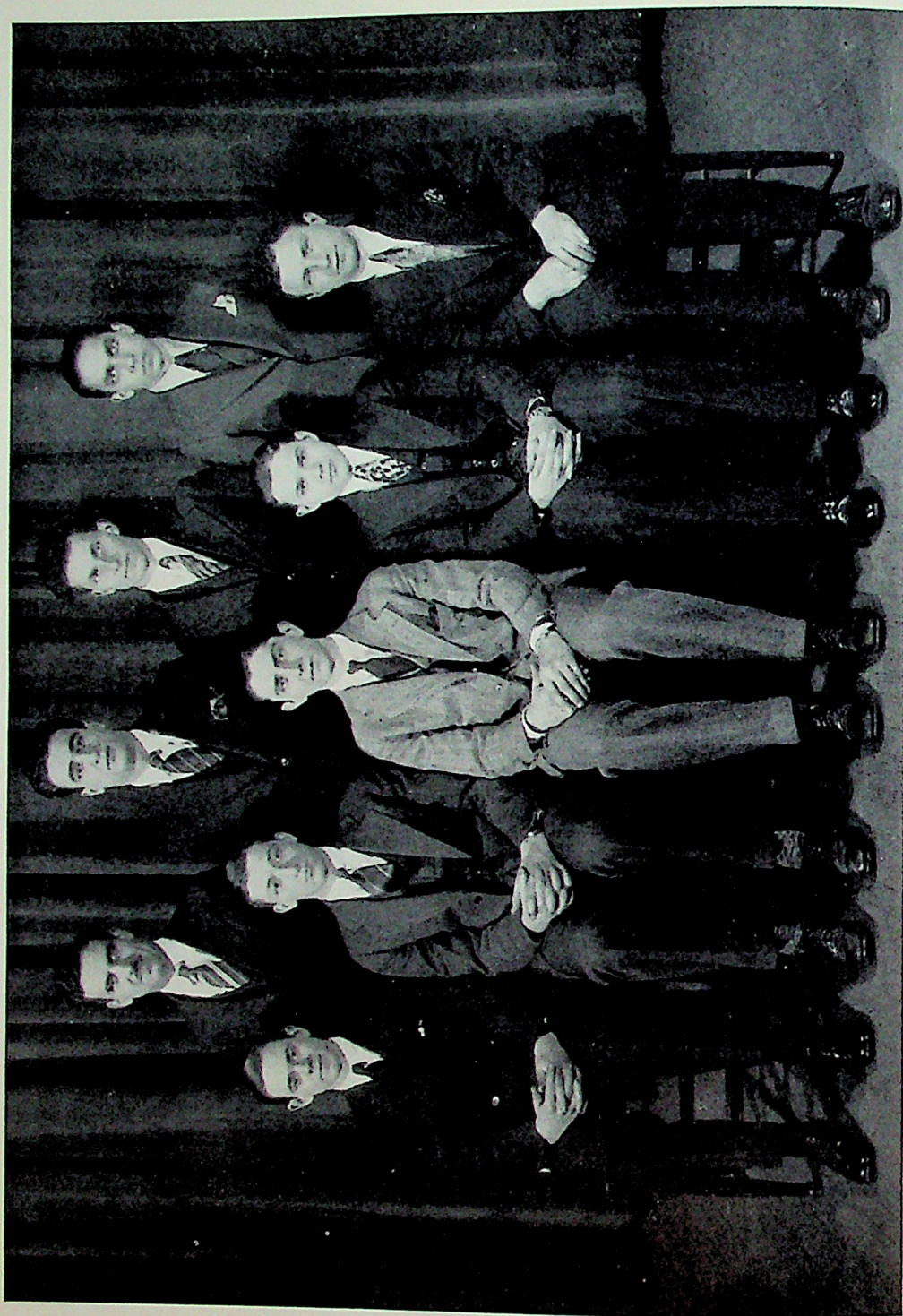
In spite of his size Abe can hold his own when it comes to eating. The A. A. refuses to feed him on the basketball trips.

But all jokes aside Abe is still with us in the Junior Year taking a full schedule.



1933





CHEMICAL ENGINEERING



Chemical Engineering

President

JOHN B. DE COSTE

Vice-President

JOSEPH A. KORANY

Secretary

DANIEL H. BEATON

Treasurer

MICHAEL HIBNER

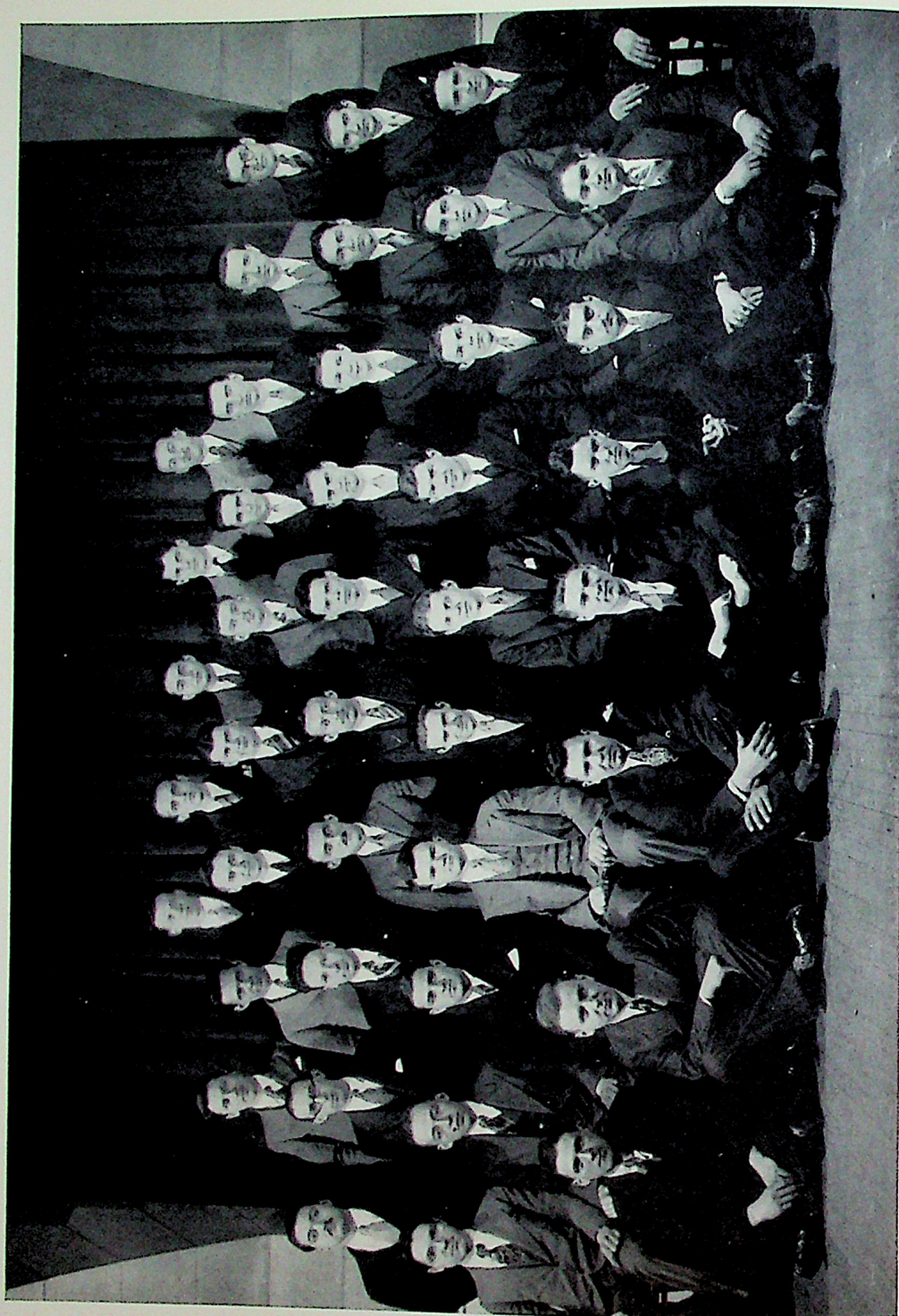


*A*t present all is quiet in this Chemical Engineering group. Except for a few ripples of interest here and there nothing interrupts our one perpetual unit process, namely, that of grinding.

Usually this class gets a very good write-up, but due to the terrific grind it was found impossible to duplicate or even approach the completeness of previous write-ups. So this is all you get.

THE HISTORIAN.





GENERAL SCIENCE



General Science

President

PHILIP F. BRUECK

Vice-President

JOHN T. CARROLL

Secretary

ERNEST GRABER

Treasurer

JAMES LOCKE



YOU say you require the history of the G. S. Class of '33 to make your book a success. Oh! you want to print it opposite our picture. Well now, of course, we hate to admit it, we are good.

History? Of course, we have made history. Three short years ago we entered "Cooper". Freshman, yes, but different. How? Well, we had two track men and the Chairman of the Entertainment Committee on the Night Annual. That's how.

Our second year saw us settle down to the serious business of running the activities of the school. Three track men including the Assistant Manager. A member of the football team, Night Sports, Editor of the *Pioneer*, Secretary of the Science Council, General Chairman of the Annual and the first sophomore ever to receive a gold "C". Yes, we sure were good. And this year feast your eyes on the position we hold.

"*Science Council Vice-President*", "*Night Sports Editor of the Pioneer*", "*President of the Math. Club*", "*Vice-President of the A. O.*", "*Treasurer of the A. O.*", "*General Chairman of the Annual*", "*Chairman of the Gold 'C' Committee*", "*Member of Publicity Committee for Night Annual*", "*Three Track Men*", "*Two Football Men*", "*Manager of Track*", "*Assistant Manager of Track*."

Lack of space prevents us from further proof that we are good, but we have led the sales on Annual tickets for the past three years, and had record sales on the *Pioneer* and CABLE also the A. O. Do we ever study Well now, let's not discuss that. If you must know, ask our Profs. Because you see we are good there too.

THE HISTORIAN





ELECTRICAL ENGINEERING



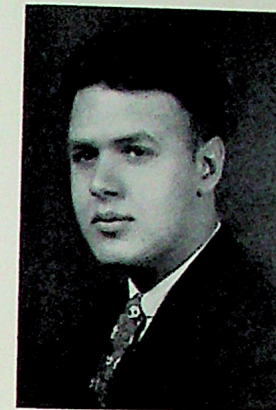
Electrical Engineering

President
T. S. ELLIS

Vice-President
J. CARROLL

Secretary
L. R. OSWALD

Treasurer
A. LUDWIG



GETTING back into the normal school life did not take very long for the Third Year Electrical Engineering Class this Year. The dodging of taxies on Astor Place and the campus, the familiar cry—"ALLATE"—of the newspaper dealer on the corner, the rumble of the "L" trains, the wailing of children and the Bowery gentlemen all blended to welcome us back to Cooper and make us feel at home.

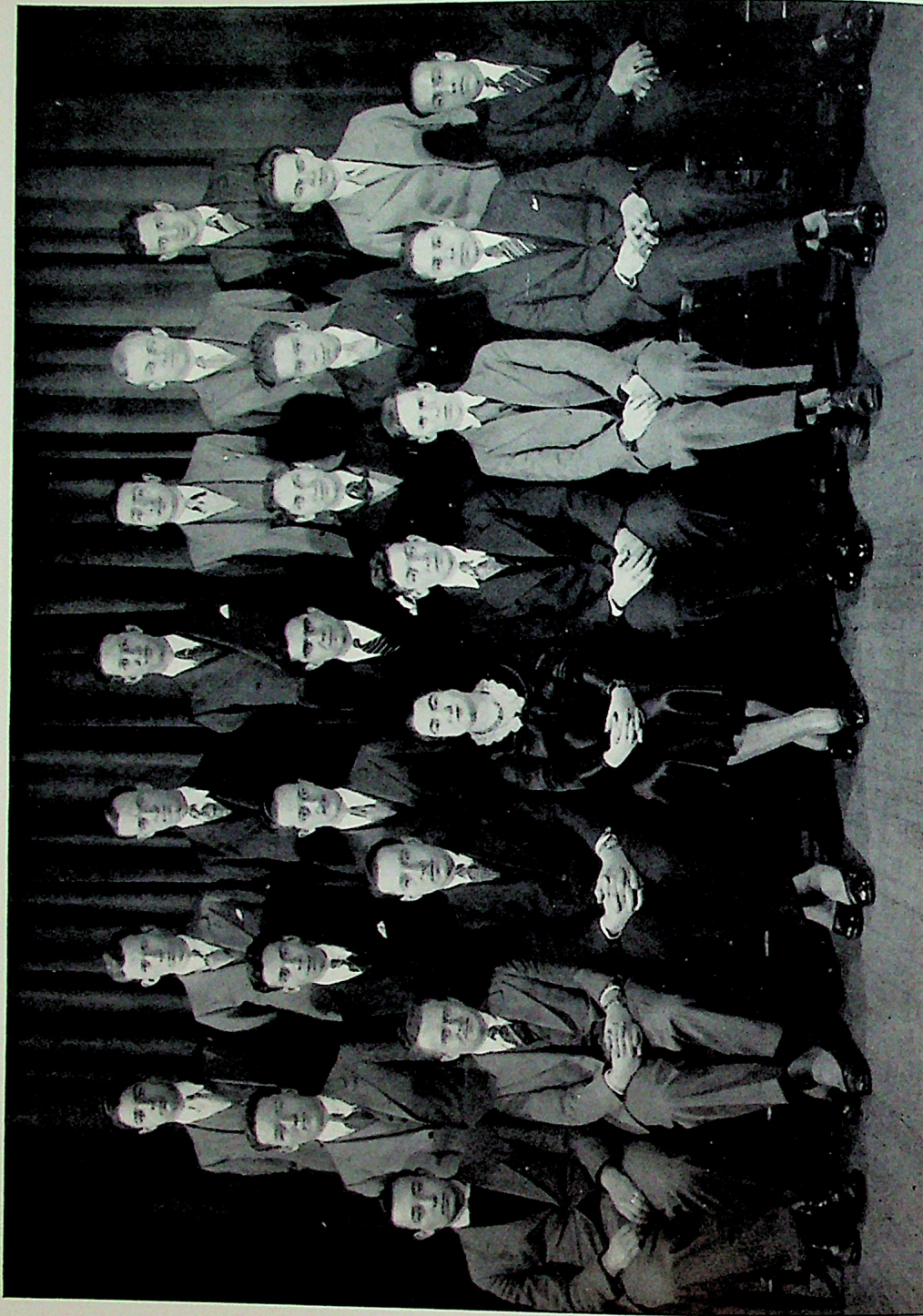
If there was anything we had to become used to again, it was the brain work and the six or seven flights of stairs to climb up.

For the most part, the school work continues to claim the attention of the class. One social affair, a stag dinner in conjunction with the E. E. Class of '34 was thoroughly enjoyed.

The outlook for the coming exam week, for the most part, seems to be one of mingled fear and hope, although in the end, all will be well.

THE HISTORIAN.





ARCHITECTURE



Architecture

President
JOSEPH SINNOT

Vice-President
GEORGE T. TAYLOR

Secretary
P. T. BARROWS

Treasurer
HARRY A. DE MARS



BELIEVE it or not! That is the foremost exclamation we can make. Yes—believe it or not—we have just completed our second yearly sojourn at Cooper Union. Time must surely have wings. It was not so long ago when we first entered the portals of Cooper in quest of Architectural knowledge. We look forward to the future and hope that in two more years, we may look back upon our time at Cooper with the following exclamation "Those were the nights."

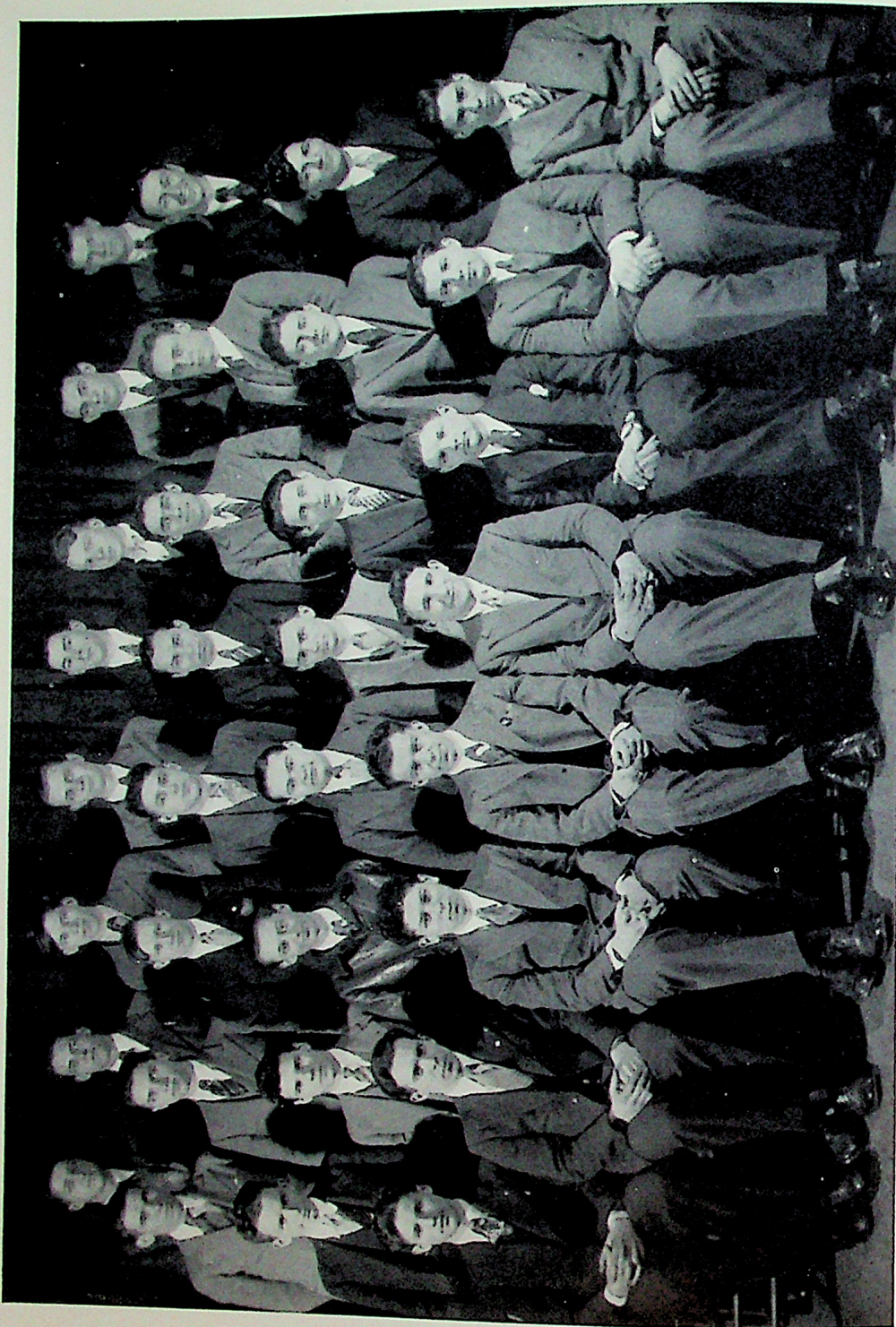
Our accomplishments during the first year were of an educational nature. We were so engrossed in our work, which seemed so novel to us, that social events held no interest in our minds.

Under the personal supervision of Mr. De Mars, our treasurer, an open informal dance was being arranged, when this CABLE went to press, to accommodate many outside friends of the students. We are looking forward to a great support and certain success. This shall be an indication of our affairs to come.

As was expected and still is, a few students have dropped out due more to financial troubles than anything else, nevertheless the rest shall carry on in such manner that our predecessors and those classes after us may look to the class of '33 as an outstanding and fast moving crowd of studious, faithful and ever-ambitious students.

THE HISTORIAN.





INSTITUTE OF TECHNOLOGY



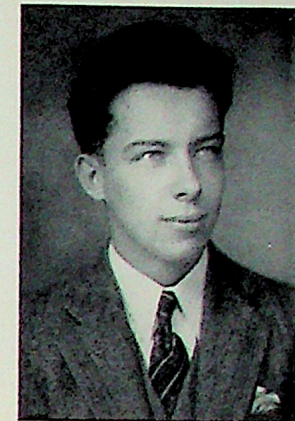
Institute of Technology

President
EDWARD RYAN

Vice-President
EDWARD KOCH

Secretary
J. WILKER

Treasurer
W. RIGRAD



IN the early days of October the portals to Cooper Union were opened to their fullest extent, and the resulting tide swept in a newly initiated sophomore class. After the first spasm of greeting and congratulations had passed the roll was called and, sad to relate, of a class which had almost reached the century mark, less than two-thirds returned to the fold.

But we were not discouraged nor were our ambitions damped. On the first day that one of the instructors absented himself from a lecture, we nominated and elected the class officers who promised to serve honestly and faithfully.

The next meeting of the class, which was scheduled for the following week, was postponed because another of our staff of instructors seemed to think that a three hour examination would do us some good. Of course, we had to acquiesce.

In due time, the class decided to tax each individual for a small sum of money in order to increase the class treasury. Also of interest is the fact that the class dinner, after much discussion, was decided to be held sometime during January or February, preferably the latter so as to appease the spirits of Washington and Lincoln.

The sophomore class is well represented in all extra-curricular activities, in fact, we ought to feel proud that we are part of this class. For in all activities that have been sponsored and in which skill and courage stood out, the sophomore class has invariably excelled.

THE HISTORIAN.



The Story in our Cable

As each Junior Class comes along it faces the big task of producing "Our Year Book." Each year this becomes increasingly difficult because the previous Junior Class has put forth its best efforts, not only to out-do the former issue, but to also make the book a work of inestimable value and beauty—a credit to its producers.

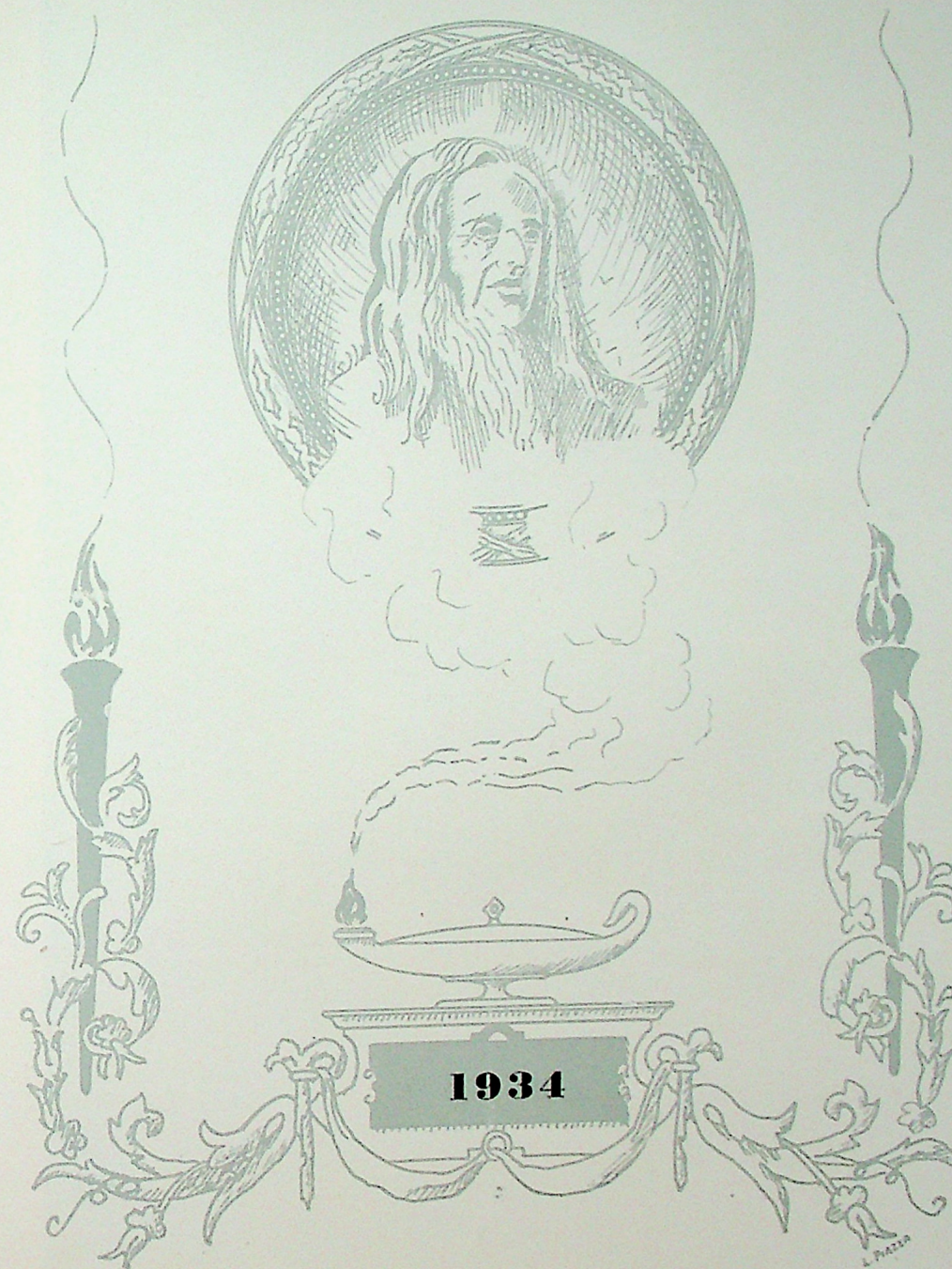
A theme is picked, usually trying to embody the work of the school in order to truly represent Science and Art. This year one of unusual value and interest has been taken. It should have its appeal to everyone, whether interested in the school or not, since it deals with those who have studied here, who, after their time was up, kept on with an indomitable will to reach success in life.

Science in its early days was slow to develop. Very few facts or laws governing the actions of common occurrences were known, and so matters were left to a select few who chose to spend their time trying to find out why things happened the way they did. These few were very seldom repaid for the time and effort they put forth and usually died in poverty. Yet they were the pioneers in the fields of science who have added little by little to the facts which now permit us to analyze those common occurrences.

A story has been told of how Gallileo, once attending a church service, noticed the great chandelier above him swinging back and forth. Curiosity prompted him to time its vibrations. At the end of the service he again timed the vibrations and found them to be the same. Rather odd, he remarked, and started puzzling over the incident. Well, he did some thinking, and today we know that no matter how heavy a pendulum is it will take just as much time to swing through a small arc as a large one, the only factors governing the time it takes being the gravitational attraction and the length of the pendulum. Many items of similar nature appear before us daily, some of us take notice of them, others not. It is the observant and diligent person who achieves success in life.

Plodding on down through the ages we find others who have contributed to the knowledge we now have; our old friend Archimedes, for instance, who, while taking a bath, found that his feet were wont to rise to the surface of the water instead of staying where he put them. His ever active mind told him something was out of the way, and after much thought there dawned upon him the fact that his feet were not as heavy as the rest of his body and the water supported them easier. It was then that he found that a body loses

(Continued on Page 208)





CHEMICAL ENGINEERING



Chemical Engineering

President

ARTHUR O. PLOTZ

Vice-President

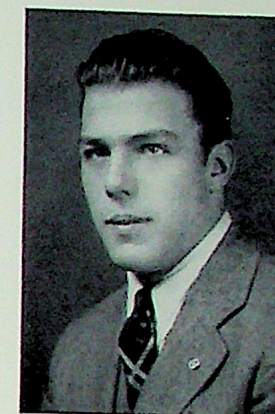
WILLIAM HARATONIK

Secretary

FRED C. OLWIG

Treasurer

J. WILLIAM CAREY



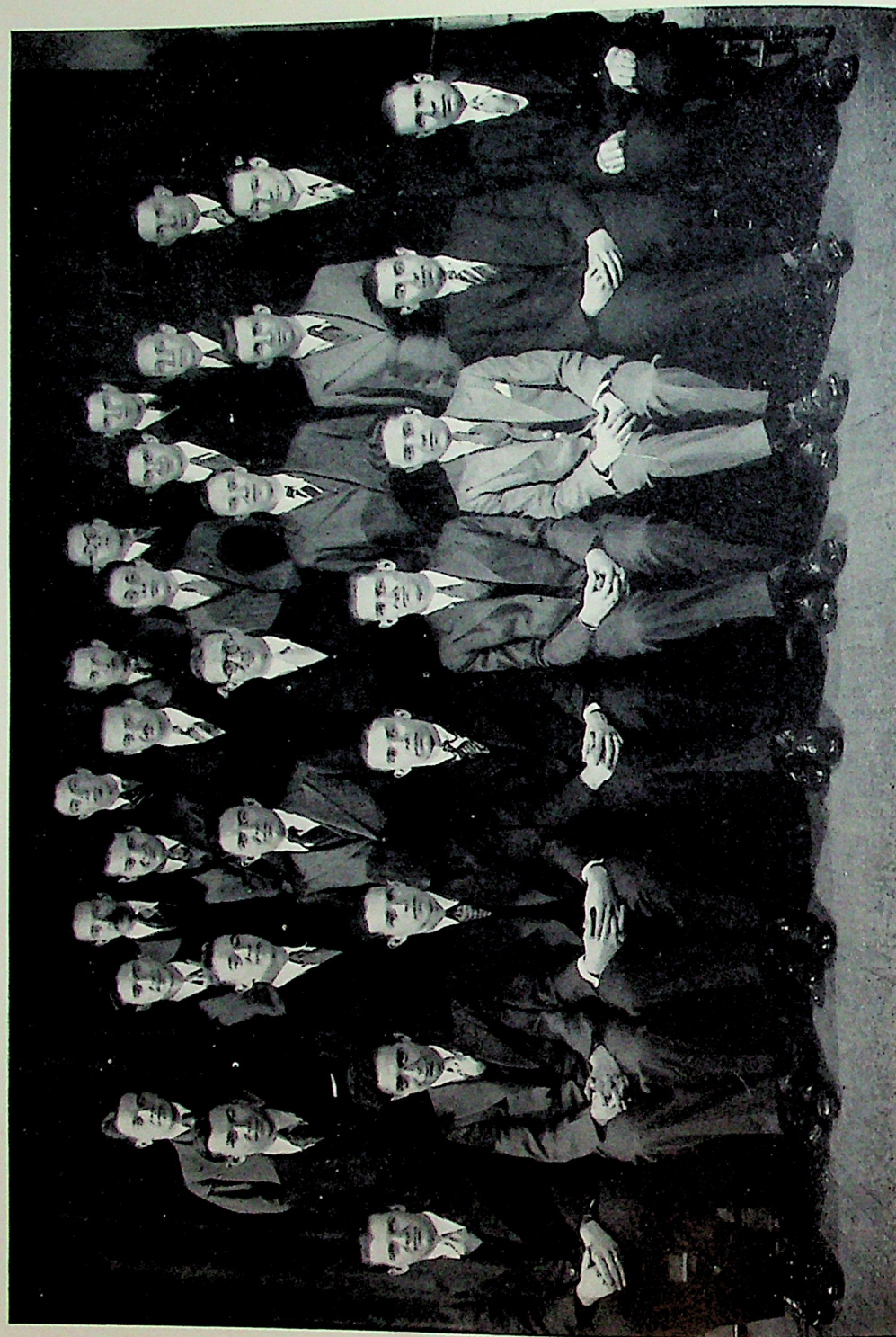
THE CLASS is plunging through its second year, and despite the fact that the hills are steeper and the paths more devious, it is not suffering as many casualties as it did in its first year, when the course was new and untried. A few familiar faces were missing after the summer holidays, but this submergence of those who couldn't hurdle the final wall seems to have strengthened the solidarity of the remainder.

The class is now a compact group welded into a cohesive mass by companionship in difficulty and hard work. Individual acquaintance has ripened into friendship; a sense of responsibility toward class and school has grown. Material has been furnished for extra-curricular activities such as the "Pioneer" staff and various teams. If now one falls by the way a gaping hole is left that is not easily smoothed over.

Political duties and social activities have not been neglected. A class affair was held at the end of the first year which proved so successful that it will certainly be a yearly get-together occasion until it merges with the Junior Prom. The Freshman officers were elected as Sophomores, thereby proving that the members of the class voted with foresight and discretion the first time.

THE HISTORIAN.





GENERAL SCIENCE



General Science

President

G. BARDES, JR.

Vice-President

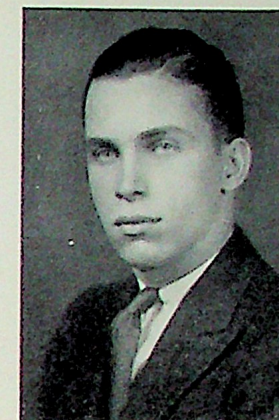
C. BLUMBERG

Treasurer

J. SRUBLEV

Secretary

J. J. FITZGERALD



OUR second year at Cooper Union is soon to close and we all look forward to a fine vacation. We will, to a certain extent, be sorry to end a very enjoyable year. The "30-31" term was indeed a prosperous one for the second year General Science Class. At the beginning of the term our number was four less than at the close of our first year, but now it is gratifying to see the body intact after seven months of pleasant though difficult study. And what is even more gratifying is to know the fine caliber of these scholastic endeavors. As first-year men, the class set itself a high standard in ratings, and now, as second-year men, we find that our original rating is still perfectly suitable.

We are really proud of the athletic prowess of some of our classmates. Numbered among these men are five basketball players (two major and three minor letter men), the captain of the tennis team, and the football, track, wrestling and handball squad. An effort to carry a swimming team in the sport calendar was mainly instigated by members of G. S. "34".

The class will be in great shape for the dinner and dance to be held in the fall; preparations for this event are well advanced. We feel certain that an average of scholastic, social and athletic efforts will place us with the leading year groups in the school. AND NOW—REST—then back to bigger and better third-year men.

THE HISTORIAN.





ELECTRICAL ENGINEERING



Electrical Engineering

President

JACK ROBERT MILLER

Vice-President

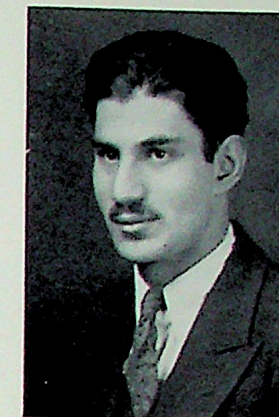
JOHN CAHILL

Secretary

DAVID WARSHOFKY

Treasurer

JOHN CURRIE



WITH the arrival of October, the most hardy and seasoned men of the E. E. Class of 1934 could be seen once again approaching the familiar portals of Cooper Union. Immediately upon their return, the class was reorganized with the above mentioned men elected as officers.

A class meeting was held at which the social activities for the current year were discussed. A class dinner was decided upon to be tendered to the students by the class for the purpose of furthering the plan begun in their freshman days. This plan being to make the stay of the E. E. Class of 1934 at Cooper more than merely an academic enterprise, an organization promoting a more congenial and brotherly spirit in the classrooms.

The class excels in various extra-curricula activities. The class is well represented in all the major sports, especially track. Besides supplying an abundance of material to the track team, it has the distinction of having the Captain of the track team as one of its members, and also having a few members of the basketball and football teams coming from its midsts.

The A. O., Cable, and Pioneer representatives should be duly recommended for making the class well represented in their chosen fields.

THE HISTORIAN.





ARCHITECTURE



Architecture

President

ALBERT A. MILSTEIN

Vice-President

LOUIS PODELL

Secretary

REVA D. SEGALL

Treasurer

RAYMOND WALSH



On September 9th, applicants for the Architectural Drawing Class of 1934 assembled in the large hall for the purpose of taking the examination to determine the general mental fitness of the candidates to undertake the work of the course. The applicants were examined by means of a written intelligence test. The result—one hundred and sixty out of three hundred, passed.

On our first night at school we were assigned to the various sections, i. e., there are four sections, two sections which meet on Monday and Thursday, and the other two sections which meet on Tuesday and Friday. We were then told that the material, necessary to pursue the work of the course, the students must provide for at their own expense. This was met with a slight dissatisfaction, considering the then present unemployment situation and financial troubles. However, we embarked on our careers.

The ending of the first two weeks found us settled down to brass tacks—sandpaper blocks, wooden boards and high stools—and all eager to forge ahead. We were promptly led through the enigmatic details of brick and stone constructions, window details and house framing.

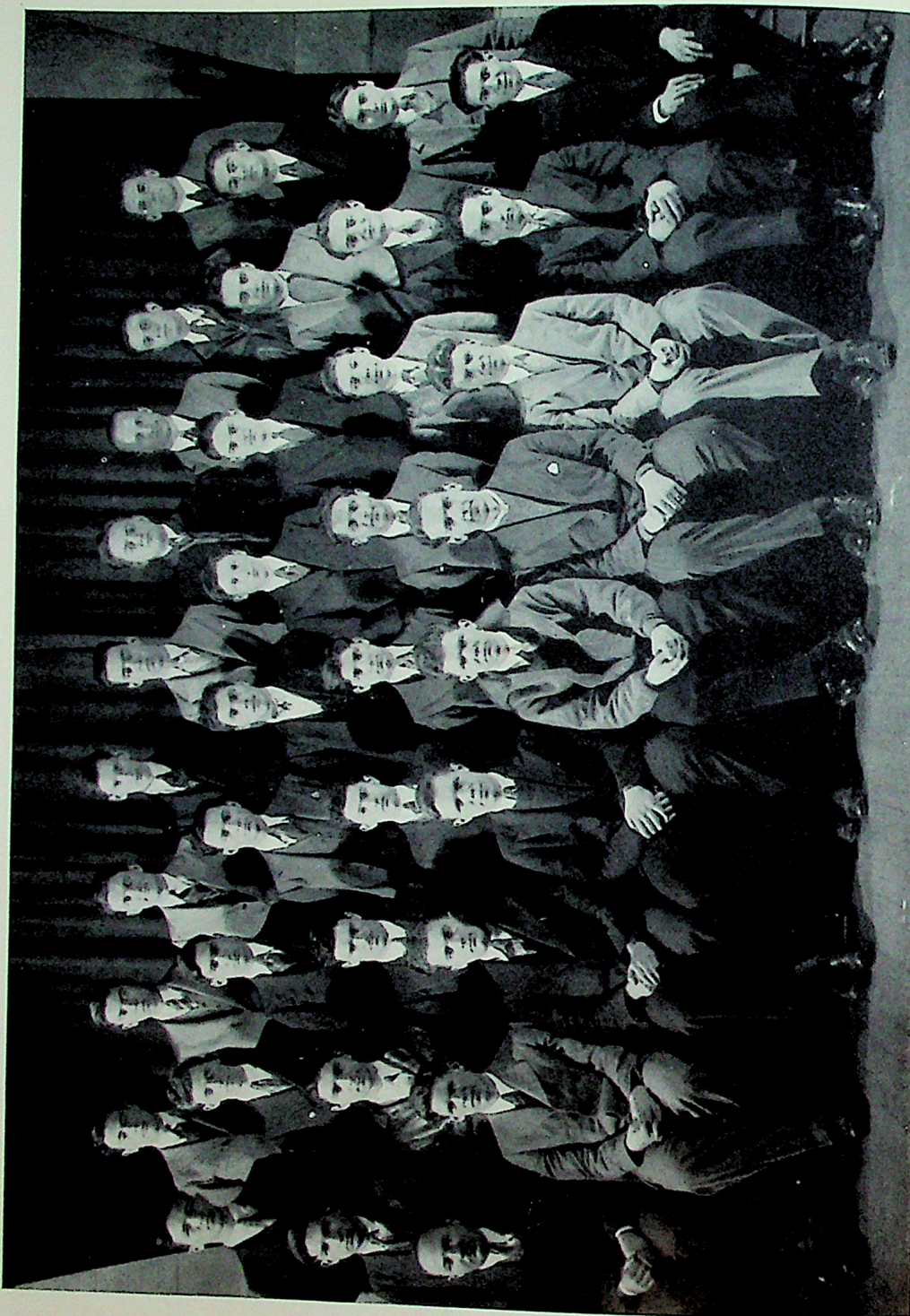
Although the study was not very difficult, it, nevertheless, proved too much for the unambitious who fell by the wayside, with the result that at the end of the term there was a noticeable decrease in the roster.

Our athletic ability was represented on the various teams by some of our classmates, who, although only novices, were progressing towards that much-coveted Varsity "C".

As we approached our second year, armed with only a vague knowledge of the fundamentals of Architecture, we feel confident of victory in the battle for success.

THE HISTORIAN.





INSTITUTE OF TECHNOLOGY



Institute of Technology

President

KENNETH C. MCLEAN

Vice-President

JOSEPH F. SKELLY

Secretary

GEORGE TERRY

Treasurer

H JACKSON



ANOTHER year, another class. The fall of 1930 brought new faces to the day classes of Cooper Union. About a hundred freshmen roam or scurry from class to class wondering why and wherefore. A jolly lot are these freshmen. Kenneth McLean is their president, and Joseph Skelly is their vice-president. H. Jackson, of much renown, is their treasurer, and George Terry takes notes on the proceedings at class meetings.

It is rumored about that the mortality rate in the first year is tremendous. Ghosts hound this brain-weary crowd to greater effort. Some of the fellows are ambitious. Perhaps they see more than the rest. Apparently they work harder. The airplane business beckons to a few, while others feel the urge to be more involved in sciences that give the atom no peace. The life of a civil engineer holds some lure, even as the desire to get mixed up in wires and currents fascinate members of the class. The big boys want to build big bridges and big buildings and big boats. They all agree that they can't get away without working.

So much for that. As a member of the Class of 1934 I think I am at liberty to say we like Cooper. Its traditions and history awe us. Come to think of it, we're older. We're men. The pros tell us so, and at least we try to be even if we do cut giddy capers and annoy the public.

Be that as it may, we're here. We've become a part of Cooper, and we're busy trying to make that an important part. Our only hope is that our best will be good enough.

THE HISTORIAN.



The Story in our Cable

(Continued from page 196)

weight when placed in water, and the loss in weight is equal to the amount of water displaced. The past does not tell us whether he found out the same about his head, but we do know that he lived to give us many more valuable contributions. Such amusing incidents are responsible for many a discovery.

There is no need to mention others who have given us the laws and facts we have today; they are too well known. Just suffice it to say that they are the ones whom we have to thank for our present high standards of education.

As we approach the time when our own school was founded, there is seen the need for those who could bring the courses of instruction into proper harmony; a great undertaking. With this, we come to one of the opening sections of our book, the "FACULTY" division page. Here we see one of the original master minds of the courses of instruction, Professor Wm. A. Anthony. At this time it may be well to bear in mind a few facts which will make this book one to be treasured by you in the years to come for the wealth of information it contains.

Professor Anthony is shown working on an electric generator which was the first of its kind ever built in this country. This reproduction of the generator has been taken from the actual machine when it was on exhibition in New York a short time ago. Note the construction and compare it with the improved designs of today. This machine was first used to light the arc lights on the Cornell University Campus. It certainly has a history. The likeness of Professor Anthony has been retained as well, so that the person who is connected with the achievement is also kept in mind. A true pioneer in the electrical field and the founder of the courses of electrical engineering in this country and in The Cooper Union.

While speaking of Professor Anthony we must not forget to bring in two other characters who played outstanding parts in coordinating the courses we have today—Professors Plympton and Spice. These two are also to be found in the opening section of the book, and any who are fortunate enough to have known these men will certainly recognize them at a glance.

And now to the main section of the exploited theme; the accomplishments of those who have studied under the guidance of such men as those just mentioned. The students of The Cooper Union should be proud of the records set by those who have gone before them and the reasons will be evident as we read on a little further. Turn to the division page entitled "The Union." Here we have the invention of a graduate of the Class of '70, the Stirling Boiler, with its designer, Allan Stirling, demonstrating the various points which

(Continued on Page 218)



1935





CHEMICAL ENGINEERING



Chemical Engineering

President

EUGENE A. KELLY

Vice-President

JOSEPH LOVAS

Secretary

BENJAMIN KLOTZKY

Treasurer

ARTHUR SPIEGELMAN



We have paused for a moment at the first wayside station on our long, upward journey toward the zenith of our immediate ambitions, namely, to be graduated from the venerable halls of Cooper Union.

Already the class has distinguished itself and made its mark in the annals of Cooper. Even in its first year, the class has been outstanding scholastically, athletically and socially. But the end is not yet. Before we leave, it is our earnest wish to see the name of our class made so prominent that it will never fade.

The year started with thirty-five men, almost all strangers to each other, coming together from all points, to obtain knowledge, and in so doing have made many new friends and which will weld into a friendship which will last all our lives.

The history would not be complete without a mention about our social activities. We planned a great party. Was it a success? Ask any of the boys.

We close with a tribute to the faculty, those men who have aided us so willingly and faithfully, we hope to achieve the ideals for which they have worked and we pledge ourselves to seek out "Whatsoever things are true."

THE HISTORIAN.





GENERAL SCIENCE



General Science

President

EDMUND B. WILSON

Vice-President

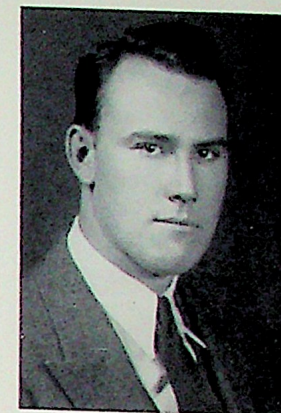
EMMET G. HAPP

Secretary

WILLIAM P. REUSS

Treasurer

HENRY C. BRENNER



THE General Science Class of 1935 has not accomplished much in a material sense, our first semester was spent in getting acquainted and acclimated to our new surroundings and to the routine of obtaining an education in the evening. Hence, we did not organize into a class organization until a goodly portion of the term was concluded. However, as members of the freshman class, we intend to make our five-year stay at Cooper Union more than a routine of class work, and we look forward, optimistically, to next year and the years following to be ones of great activity and to be long remembered by everyone.

The Class regrets to have already left some by the wayside, but hopes those amongst us will find it within their power to carry on.

Many members of our class have taken to athletic activities, and we are honored by having representatives on many of the school teams, including the track, football and wrestling teams.

As freshmen, we will endeavor to show our appreciation for the education we are receiving as the result of the efforts of our founder, "Peter Cooper," by honest and conscientious work.

THE HISTORIAN.





ELECTRICAL ENGINEERING



Electrical Engineering 1935

President

J. G. CARLIN

Vice-President

O. A. LAUFFER

Secretary

E. E. PAUL

Treasurer

D. WILCOX



Now that we know how it is to be Freshies they come around and ask us for our history.

The first thing on the schedule was the election of class officers and the planning of an entertainment worthy of such a fine group of students.

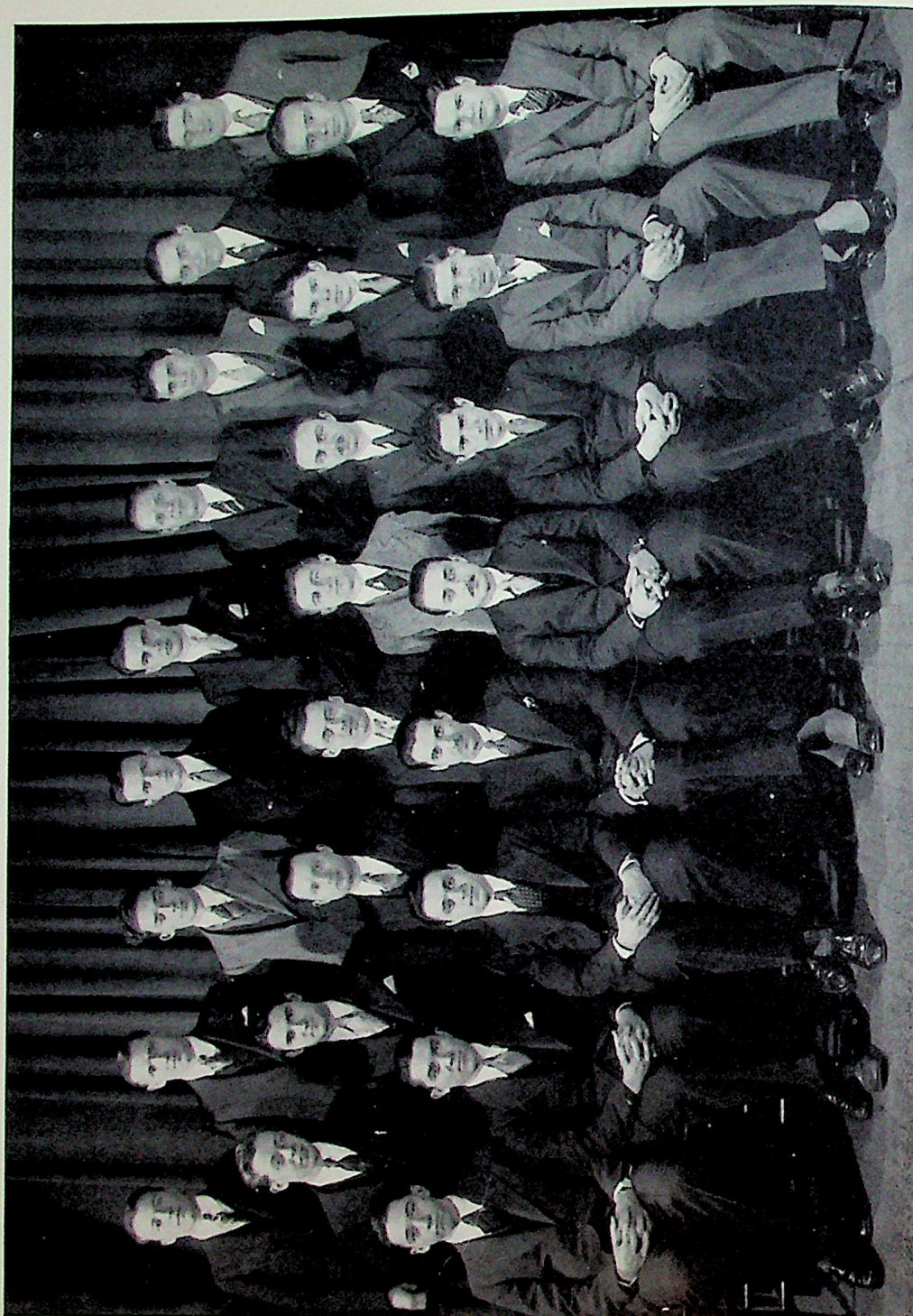
Soon after we began to grace the halls of the famous "Cooper Union" by our presence, we discovered one or two things which had been more or less unexpected. There is no hazing or maltreatment of freshmen.

The class showed it had caught on to the Spirit of Cooper quite early by having representatives on the Pioneer, Track Team and Students' Council.

In closing, the men of the class feel that they have done a good year's work, both scholastically and athletically, and hope that all of this year's class will be back in October to start the Sophomore year with a bang. We take this time to thank the Professors and Instructors who have helped us complete our freshman year at Cooper Union.

THE HISTORIAN.





LIFE CLASS



Life Class-1931

President
EUGENE ROSSI

Vice-President
FRANK PAGNATO

Secretary
RAOUL L'HOTE

Treasurer
WILLIAM O'DONNELL



FOUR years ago, one hundred button-hole makers, real estate salesmen, bottle washers, pastry cooks and a lot of other boys "who like to draw" started to the life class.

Only fifty of that crowd survived the three-year grind of drawing whole and not so whole classic plaster casts.

Well, the fifty of us sat down where there was only room for forty, and proceeded to forget everything we had learned about drawing.

At least, that's the way it must have seemed to Mr. Ciampaglia, the very patient instructor into whose life we came,—or should we say, "into whose Life Class we came"?

The fascination of drawing from a large variety of living models really helped the hours fly, and working was not only a genuine pleasure, but indeed a novelty for those who were on the unemployed bread lines.

During the rest periods, the boys would get together and harmonize in whistling choice bits from favorite symphonies, overtures, and the Maine Stein Song.

The neighboring classes would send in requests—usually to "pipe down."

And now we go on to further stages of our careers.

Some to garrer studios and starvation, others to commercial art and gold bah tubs, and still others to soliciting insurance from door to door, or else to washing dishes in the local hash houses.

We have sufficient space to say that each man in the first ten rows of the photograph on the page adjoining is a great scout, from whom we expect great things.

THE HISTORIAN.



The Story in our Cable

(Continued from page 208)

made it an outstanding piece of work. This material has been collected from textbooks which give a descriptive treatise on it, and also from the plant of a concern which manufactures these boilers today. Allan Stirling has made a name for himself that will live for many years, if not forever, by making use of the education which he obtained at his Alma Mater. Success is not luck, it is hard work.

As we turn the pages to the "Classes" section and pause for a moment we see a figure familiar to many—Professor M. I. Pupin, at present a Professor of Electro-Mechanics at Columbia University. He also was a student at Cooper in its early days, about 1882. Although he did not complete his course here, it was a foundation for his present success, and we note with interest that he obtained great inspiration from the picture of "The Inventors" to be found in the "Students and Graduates" room in the Hewitt Memorial Building.

Behind the division page of "The Sports" lies another story; the tremendous project of placing a tunnel beneath a great river so that trains of the Pennsylvania Railroad System might carry passengers with speed and safety to their destinations. Many sleepless nights—days of worry—obstacles—set backs—tragedy—romance, were the lot of John F. O'Rourke as he pushed this giant monster of his to completion. Were it not for the "air-locks" which he had invented for use in the caissons, this great feat of engineering might never have been accomplished, or else it would have taken years longer, greater hardships and loss of life to complete it.

No, Cooper does not stop with just these few outstanding accomplishments of its graduates; far from it. The division page of "The Organizations" brings out a powerful story. In brief, it deals with the conservation of natural resources. For many years scientists had endeavored to obtain nitrogen in large quantities for use in stimulating the growth of crops bearing the nitrates so necessary for human existence. As each crop leaves the ground it takes with it a quantity of nitrates and leaves a poorer soil for the following one. Obviously this energy must be replaced if the following crop is to be as good; but from what source can it be replaced? That was the question facing the scientific world. With this in mind, two American inventors, Charles S. Bradley and D. R. Lovejoy, the latter a Cooper graduate of the Class of '95, tried to build upon the meagre facts of an experiment performed by two Englishmen, Lord Cavendish and Priestley, as far back as 1785. These two had shown that nitrous vapors could be produced by means of an electric spark passing through air contained in a small glass tube. Lovejoy and

(Continued on Page 286)



JOHN F. O'ROURKE,
Class of 1876. Inventor of
the air locks for caissons
and builder of the Penn-
sylvania Railroad Tubes un-
der the Hudson River.

The SPORTS

The Story in our Cable

(Continued from page 200)

made it an outstanding piece of work. The cable is a textbook which give a descriptive treatise on the subject of the concern which manufactures these cables. It is a name for himself that will live for many years. The education which he obtained at the University of Pennsylvania is hard work.

As we turn the pages to the "Class of 1876" we find a figure familiar to many. Professor of Electro-Mechanics at Columbia University, it was here, it was a foundation for his present success. It was here that he obtained great inspiration from the "Students and Graduates" room in the University building.

Behind the division page of "The Sports" we find the tremendous project of placing a tunnel beneath the Pennsylvania Railroad System might come to a successful end and safety to their destinations. Many sleepless nights, many obstacles—set backs—tragedy—romance, were the lot of John F. O'Rourke in his quest for this giant monster of his to completion. Were it not for the air lock which he had invented for use in the caissons, this great feat might never have been accomplished, or else it would have cost many more hardships and loss of life to complete it.

No, Cooper does not stop with just these few astounding accomplishments of its graduates; far from it. "The Organizations" brings out a powerful story. In brief, it tells of the conservation of natural resources. For many years scientists had been seeking to obtain nitrogen in large quantities for use in stimulating the growth of crops. The nitrates so necessary for human existence. As each crop takes up the nitrates with it a quantity of nitrates and leaves a poor soil for the following one. Obviously this energy must be replaced if the following crop is to be as good, but from what source can it be replaced? That was the question facing the scientific world. With this in mind two American inventors, Charles Bradley and D. R. Lovejoy, the latter a Cooper graduate of the Class of 1876, tried to build upon the meagre basis of an experiment performed by two Englishmen, Lord Cavendish and Priestley, in 1785. These two had shown that nitrous vapors could be produced by means of an electric spark, passing through air contained in a small glass tube. Lovejoy and

(Continued on Page 200)

Two Hundred Eighty

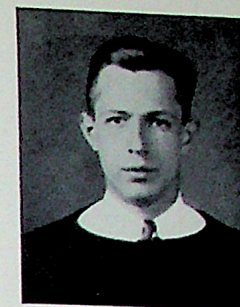


JOHN F. O'ROURKE,
class of 1876. Inventor of
the air locks for caissons
and builder of the Penn-
sylvania Railroad Tubes un-
der the Hudson River.

The SPORTS



Football, 1930



*A*T the beginning of August, many weeks before the opening of the semester at Cooper, many candidates showed their skill at football practice. Jack Cashman took great pains to form a team out of the new material which was on hand. Jackie Bateman marked his return to the team by being elected captain. This year he held a formidable position as end, handling the job very nicely.

Rouse, who was appointed assistant manager last year, took over the managership when Mr. Peterson was unable to undertake it this year.

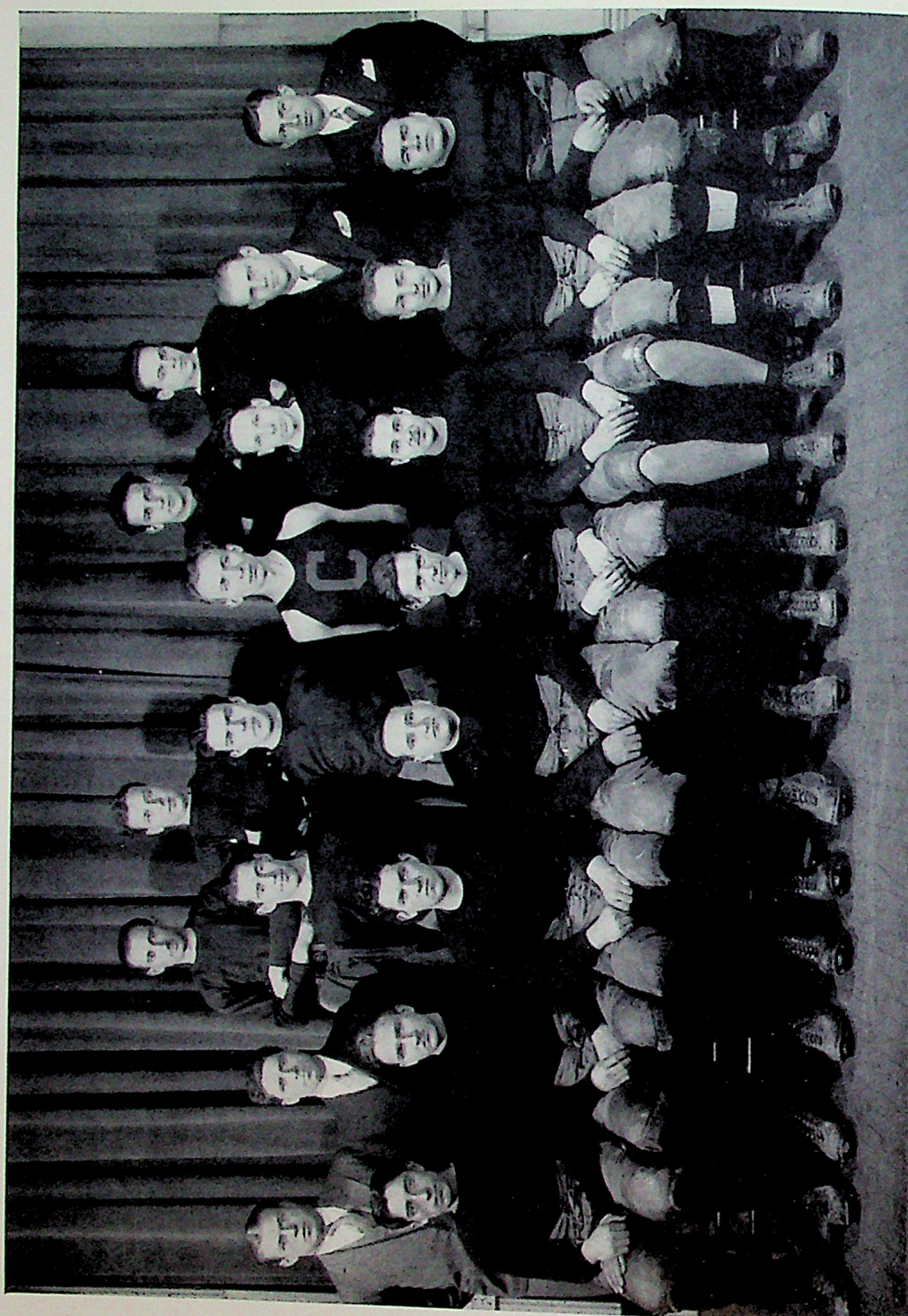
After many weeks of hard training, the time arrived to leave for the first game of the season, on the last Saturday in September. Union of Schenectady was the opponent for the day. The Cooper squad, twenty-seven strong, left on an enjoyable moonlight sail up the Hudson, leaving their sweethearts at home, hoping for their safe return. Cooper was received with a hearty reception by the Union undergraduates. The game proceeded after a few hundred Boy Scouts marched to open the football season of 1930.

The Union team started out to make hash out of our boys. After the first ten minutes of play the Union team scored three times. Cooper seemed to be late in starting. After the third touchdown, the Cooper line held and Union was unable to score again in the first half. Early in the second half another score was made. Cooper then held until the last minute of play, when Union completed a forward pass for the fifth and final touchdown. The game ended with the score 32-0. This did not seem so bad, considering that Union held Columbia to 25 points.

All the boys were exhausted on the trip home. Many of them turned in early, while others started the usual poker and bridge games.

The following week the squad traveled to Philadelphia to take on Drexel Institution. They were a heavy bunch of boys. Nearly every man of Cooper was outweighed by the man he was to tackle. The damage was done almost before our brave lads seemed to sense they were on a football field. Cooper threatened the goal line occasionally, but not enough to scare the opposition.





FOOTBALL TEAM



Many of the Cooperites received bruises. Chiert, who, incidentally, made his return to the team with Bateman after the same number of years of absence, received the worst injury, straining a few muscles on his hip, which kept him from playing for two weeks. Worshofsky, a formidable end, hurt his shoulder, and Arcieri, a backfield man, banged up his elbow. The others recovered from their cuts and sprains enough to participate in practice during the following week.

Upsala, of East Orange, was the next team for the Engineers to tackle. Here Cooper played a team of its own strength. The offensive of the backfield clicked with the line. The defense was superb, until the final minute of play. Cooper went to the five-yard line many times during this encounter, but each time something seemed to go wrong. Either a man was offside or a fumble would occur. Cooper's goal was not in danger of being crossed until 45 seconds remained to be played. One of the backfield was caught out of position, and Upsala completed a forward pass which resulted in a touchdown. The kick for the extra point was blocked.

Ploetz and Anthony showed they could play fine football, crashing through the opposition at will. Bulos, a veteran of two years, showed Cashman he was ready as a regular guard. His playing brought many praising remarks from the spectators.

Rider College, which overwhelmed the Cooper lads the previous year, cancelled the game for the following week due to their inability to secure a suitable field on which to play. This gave our boys a much-needed rest for an extra week.

Our ancient rivals, the N. Y. Aggies of Farmingdale, were next on the program. The Upsala game gave our men encouragement for this contest. Two touchdowns were made in the first quarter by the Maroon and Gold. This was the first game in which Cooper scored. This may have been due to the Cooper cheering section, as many of the previous football players attended this tussle. In the second half, Cooper fell to pieces after having three touchdowns scored against them. It was the same old story. Cooper cannot stop forward passes. The score for this meeting was 25-19, in favor of the Aggies. Again the Cooper men returned home to mull over their mistakes. Torzilli and Chiert starred in the backfield, and Ploetz again showed his supreme linesmanship.

Our next opponent was Wagner College of Staten Island. The Cooper lads had all good intentions of bringing home the bacon from this game. For three consecutive years Cooper had been victorious against Wagner; this game was a Nemesis to the team. The game ended with an 18-12 score in Wagner's favor.

The loss of three of the best men of the team, Burlowitz, Bateman, and Rouse, through eligibility rules, seems to have broken up the heart of the whole team. It lost the next three games by the unimaginable scores of 60-0; 75-0;



60-0; to the National Farm School at Doylestown, Pa.; Hartwick, Oneonta, N. Y.; and the U. S. Coast Guard Academy, respectively.

These games are unexplainable, due to our inability to state anything for or against.

The coast guard game ended one of Cooper's most chaotic seasons in football. Fortunately, no member of the team was seriously hurt during the season, although many men received minor injuries during the eight encounters.

On December 29, every football man came to the annual football dinner. Coopers' ex-football men also attended the affair. A number of captains of past years were present. They were: Fidel, '24; Rheinhardt, '26; Friedl, '27; Bleicher, '28; Peterson, '29, and Bateman, '30. Chiert, the captain-elect, made a short speech concerning the coming season.

Musilek, Brass and Rouse were the only former managers present. Training was certainly broken that night, and Prohibition did not seem to bother the boys. The major and minor letters were given out with much deserved applause. Bateman and Rouse received the Varsity Gold footballs in recognition of the good work they performed this season. Charlie Cramer, an assistant coach, also received a gold football. He was a member of the Cooper team in '26, '27 and '28.



Grid Punts

COACH JACK CASHMAN made a wonderful attempt to organize a team within a few weeks with only a few men left over from last year.

Charlie Cramer, Gene Milford, and Bill Brass helped Cashman to put out a first-class team.

"Spudey" Rouse had his hands full during the season as player, manager and seer.

Jack Bateman was Captain, but unfortunately had to leave school before the end of the season. "Beter luck next time, Jack!"

Arty Ploetz, one of the Long Island boys, was a thorn in the side of our opponents. He's only a soph, too.

Bob Anthony, side kick of Arty, always filled the gaps in the line.

Harry Malmquist was continually teased about his plunge into matrimony. The joke was on us when he confessed that he is still a bachelor. Harry served on Cooper's front line without an injury. Heres' luck to you, Harry.

"Chubby" Bulos, who is all there, was always ready to jump into play during his three years on the grid.

"Washy" Washofsky was on the Cooper team only one year, but was fast and much feared by the opposition.

"Noisy" Chiert will have plenty to talk about, because he's been elected Captain for next year. We wish you luck and success.

"Curly" Torzilli finished two years on the Varsity. His line plunging always amazed the spectators. We wonder if he gets his fighting ability at home, since he is no longer a bachelor.

"Lucky" Glicksman tore his way around the end for many a game. Too bad he wont' be with us next year.

"Bing" Miller was one of the few freshmen on the football field. He ably filled in when a backfield man was taken out. We hope to have him for the next four years.

Ed Watson, after two years with us, intends to return, but he will have one drawback—his sprained ankle slows him up during the games.

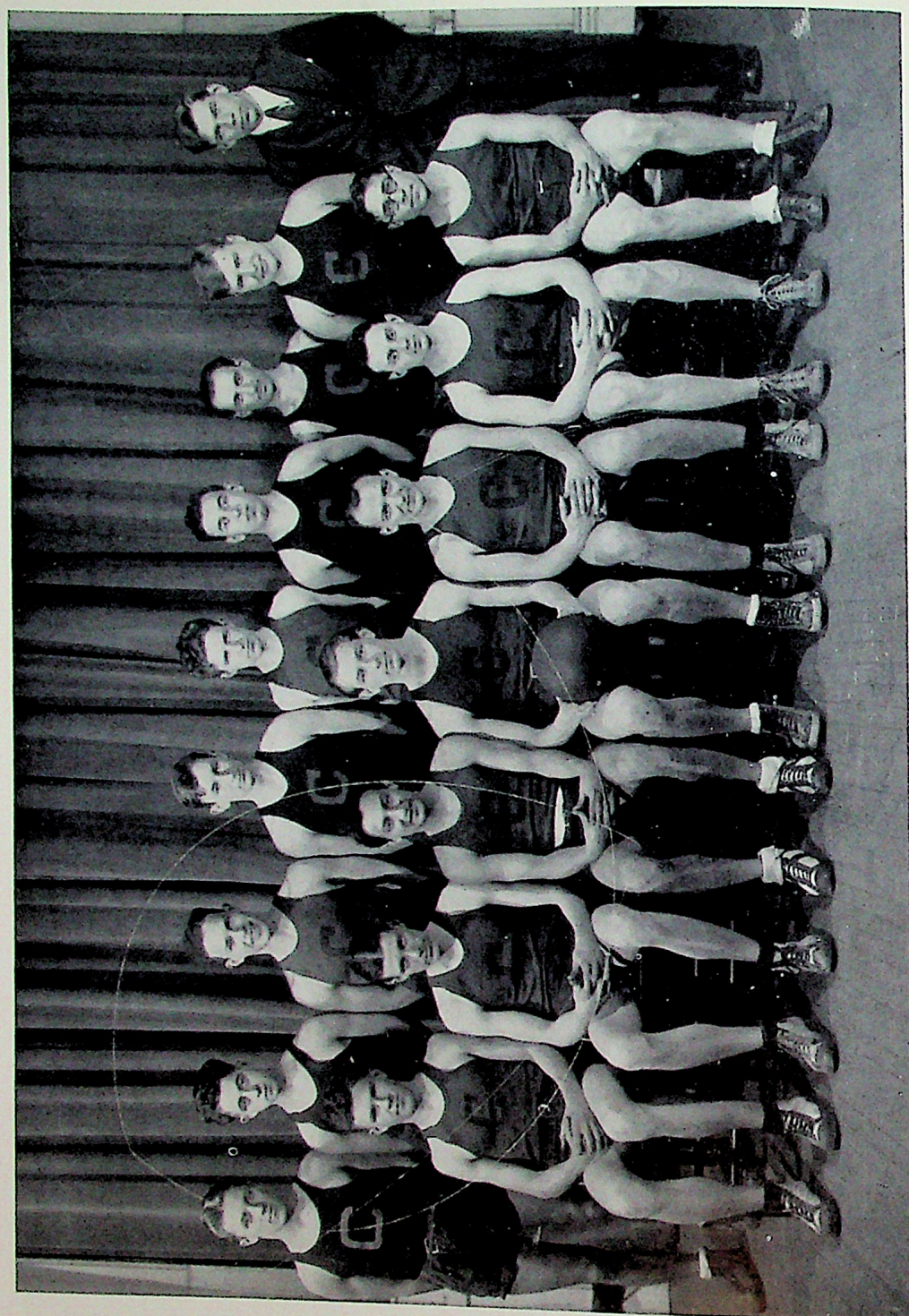
Mike Arcieni is another senior who could only spare one year to participate in this hazardous sport. His ability will be missed next year.

Hal Lund was an able substitute, filling in at end and scaring many a team with his baseball tactics.

Bill Geyer is known as the Hicksville terror. That doesn't mean he's a hick, because he carried the ball many yards through the opposition.

"Killer" Kielly completed another year of experience. He made many good spurts down the field. He will be of great value to the team next year.





SCHOOLS OF SCIENCE AND ART BASKETBALL TEAM

Schools of Science and Art

Basketball 1931

THE loss of four first string men gave Coach "Red" Faltings plenty of work in rounding up a good team. Practice sessions brought to light some good material, and the team rapidly took form.

A fast practice game with the T. J. Sokol five showed that the team was rounding into condition, but the lack of reserves was evident. Another game with the Mt. Olivet five helped to tune the boys up for the first scheduled game of the season with Rutger's Pharmacy on November 22.

After an exciting trip to the Rutger's court the quintet commenced the season by showing some fine fighting spirit.

A lead by Larry Cryan was short-lived as the Druggists warmed up. The end of the first half brought the score to 26-19 in favor of Rutgers. The second half was very fast and exciting, and the Cooperites slowly pulled up, but the game ended with a score of 40-35 in Cooper's disfavor. Perhaps those beautiful co-ed cheer leaders had something to do with it. Friedman was high scorer, with Balacek and De Maio close behind.

The second game of the season was not up to expectations. The team seemed to be very slow and lost a game to General Theological Seminary that it should have won with ease, the score being 33-26.

On December 6, the team again traveled into the wilds of New Jersey to play the fast Seton Hall quintet. The boys put up a splendid battle, but the lack of practice stood against them in their tussle with the well-trained Seton Hallers. Friedman and De Maio again took the scoring honors. The final result was 45-15.

On December 14, the quintet indulged in a practice game with an Alumni team at the Stuyvesant Gym. The first half was fast, ending with the old-timers in the lead, 16-9. The Varsity then came from behind and nosed them out in the last few minutes of play by 32-24. Bob Slevin led the scoring of both teams with ten points, and was closely followed by "Slakey" Slezak, who chalked up nine points.

The Christmas recess evidently did the boys some good, as they sank three opponents in five tries. In the first game with Washington Square College, the Maroon and Gold showed some fine pass work, and held the wearers of the Violet down to a score of two while they piled up sixteen points. The second half opened with second string replacements, who managed to bring the score to 27-10 in our favor, in the third quarter. The Washington Square

team then pulled up in the final session, but could not get close enough, the game ending with Cooper on the long end of a 35-20 score.

The second game was played on the following Monday against the strong John Marshall Law five. The opponents got a very good start before Cooper began to score. Walt Bersig played a phenomenal game in the last quarter, when he ran wild and scored seven points with members of the other team around his neck.

The next day found the team headed for Philadelphia. A blizzard delayed some of the men, but they arrived safely. The game opened with our frost-bitten athletes a little off form, causing our opponents to roll up six points. From then on the game was nip and tuck, but the Cooperites took the lead from La Salle College ending the first half with a 18-15 score. The second half started where the first half left off, and the Maroon and Gold ended the game with a 32-27 score. This was La Salle's first defeat on its home court. Captain Balacek was the outstanding player, while Arty Pope and "Chick" Friedman again grabbed the scoring honors.

On the following Sunday morning, the Alumni team was played and defeated to the tune of 40-29. However, they gave the undergraduates a stiff battle, Nat Ludwig tallying 18 points.

After a week of idleness and New Year hilarity, the team fell prey to a well-conditioned Brooklyn City College team who, with the aid of the referee, managed to roll up a score on us.

The next important game was with the New York Agriculturists at Farmingdale, Long Island, on January 10. The strange court was plentifully supplied with beams in the wrong places which spoiled all our high shots. The farmers scored early and rolled up six points before Walt Bersig tore loose and tallied three points. The queer court seemed to confuse the men and throw them off their stride. They lost the game by a 44-19 score. However, they feel that this defeat can be avenged when they meet the Aggies on our home court. Balacek and Bersig were the outstanding scorers of this game.

Wagner College was the next victim of Cooper's onslaught. The game opened with Wagner drawing first blood by making a foul shot. "Noisy" Golos then gave Cooper a lead with a basket. The game then see-sawed back and forth until the half ended with a 16-13 score in favor of the Ministers. In the third quarter the Staten Islanders added to their lead, and to cap this, Captain Balacek and Larry Cryan were sent out on fouls. This session was very fast, and another basket by Golos in the last few seconds tied the score. "Chick" Friedman did much of the point-getting.

A five-minute overtime period gave Cooper a chance to roll up points, and the game ended with Cooper on the long end of a 35-32 score.

"Chick" Friedman piled up 17 points with his spectacular shooting, and was followed by "Noisy" Golos and Walt Bersig.



The return game with the N. Y. Aggies was a hard-fought battle. Our boys made just as many baskets as their opponents, but they lost out on fouls, the result, 24-17 in their favor.

Our streak of bad luck continued through our next two games. The first, with Columbia Pharmacy, showed Cooper's marvelous offense, but five men cannot beat six, so we lost by a 33-29 score.

St. Stephens' College next took the Cooper lads over the bumps for a 64-37 defeat.

Another disappointment was our defeat by Trenton State Teacher's College by 49-29.

However, this was offset by our next game. A sensational battle against Cooper's arch rival, Wagner College, ended in a victory for the Maroon and Gold, the score ending 24-21.

One of the reasons why Cooper did not have a more successful season than it did was the lack of reserves, and the quitting of two of the regulars in mid-season.

Through the Hoop

COACH GEORGE FALTINGS, a former Rutgers basketball ace, certainly did a good job in developing this year's team. A less courageous person, facing the adverse conditions that he faced, would have thrown up the sponge and picked on something easier. While the victories were not many, the team as a whole gained much in spirit and true sportsmanship from George.

Let us hope that he will be back again with that cheery smile of his.

Captain Frank Balacek, known to his teammates as the "Big Swede," made his presence felt, as far as the opposition was concerned, by his wonderful defensive work. "Eight stacks of wheat cakes," is Ballys' order on entering a restaurant.

"Sparky" Spar, Der Sparkplooger, our tiny manager, is a giant when it comes to spilling the opposition all over the floor, and believe it or not, he actually made a basket this year after five long unscoring years.

Julius "Chick" Friedman, who should be known as "Joe Eagle Eye," is the team's leading scorer. Twice during this past season he has wumpfed seventeen points through the netting. On the defense, "Chick" is all over the court, harrying the opposition. To know "Chick" is to like him, and he is a true Cooperite, nuf said.

"Slakey" Slezak, a future Electrical Engineer, sure shocks the spectators with his electrifying teamwork. His flashy passing peps up the play. Oh! Migosh! Yes! "Slakey" is next years' manager.



'Larry' Cryan, 'Chick' Friedman's running mate, certainly is developing rapidly, and in the next few years should develop into one of the best players that ever represented the Maroon and Gold. We have noticed that when a certain sweet damsel sits on the sidelines, Larry puts forth his greatest efforts. We wonder?

'Walt' Bersig, believes that the shortest distance between two points is from the end of his fingers right through the hoop, even if he does arch his shots. Walt's playing this year has sure been a revelation, and will be surely missed next year.

'Noisy' Golos, this rising young Architect, plays every position except center, and could not play that position even if he stood on Der Sparkplooger's shoulders. At times 'Noisy' has even assisted the referee during the course of the game. His constant chatter keeps the team on its toes and in good humor.

'Spiegie' Spiegelman, one of the several newcomers on the team, is a natural floor man and is a hard man to get the ball away from. If he develops his shooting eye, then it will be curtains for the opposition.

'Jumping Joe' Laucius, Spiegie's classmate, is always worrying about making the train to Elizabeth in time to get home after the game. Consequently, he speeds up the play to get home quicker, and his opponent has a trying time in checking him. Those underhand line drives of yours keep the opposition google-eyed.

'Jack Pat' Roulette, another newcomer, has fooled many of his opponents during the year with his nonchalance and easy going manner. Pat is a dead shot from midcourt, so don't let his easy-going manner fool you.

'Rudy' Dvorak and Frank Jahoda, the team's Czech and Double Czech, together with Sam Cohen, have shown remarkable improvement over last year, and if they continue to improve, will oust some of this year's regulars.

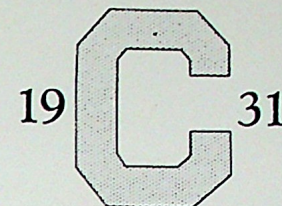
Charley Blumberg, the team's sheik, was a disappointment this year, where he had been counted upon to be a regular this year on last year's showing, he fell down. Buck up! Charley, you have the stuff to do it.

'Dave' Warchofsky, whose football playing kept him from reporting early and consequently could not catch up with the team until the end of the season.

'Sol' Frisch, Blumberg's partner in the sheiking business, shows great promises if he would get down to business and practice.



GOLD



AWARDS

Schools of Science and Art

FOOTBALL

Major "C"

J. Bateman
N. Bulos
N. Chiert

J. Glicksman
H. Lund
H. Malmquist

A. Ploetz
H. Rouse
C. Torzilli

D. Warshofsky
E. Watson

Minor "C"

R. Anthony
M. Arcieri
H. Brenner

N. De Rocco
W. Geyer
L. Goren

R. Goren
C. Interante
J. Kielly

R. Miller
J. Zamarin

BASKETBALL

Major "C"

F. Balacek
W. Bersig
L. Cryan

J. Friedman
L. Golos
J. Laucius

J. Roulette
S. Slezak
A. Sparr

Spiegelman

Minor "C"

C. Blumberg

S. Cohen
R. Dvorak

S. Frisch
F. Jahoda

D. Warshofsky

TRACK

Major "C"

P. Dwyer
J. T. Carroll

J. Michal
A. McLachlan

G. O'Brien
A. Ploetz

W. Rath
R. Sandor

Minor "C"

C. Dohrens

P. Kalb

P. McKeith

C. McPherson

TENNIS

Minor "C"

P. Anthes

J. Christensen

A. Sobel
C. Hinton

F. Young

HANDBALL

Minor "C"

A. Dolle
Cherin

R. Leary
J. Laitman

J. Nakos
P. Port.

E. Rief

WRESTLING

Minor "C"

D. Dardick
I. Calcante

T. Beckerman
M. Fexas

A. Fischler
N. Kaplan

H. Prucha
A. Singer





INSTITUTE OF TECHNOLOGY BASKETBALL TEAM



Institute of Technology

Basketball 1931

THIS, the second year of William G. Laub's tutelage of the Basketball squad, has seen the strange anomaly of a fast, hard-fighting team going out to play fine basketball, only to lose a series of heart-breaking contests.

At the opening of the season, the outlook was optimistic. Weintraub, Zeitz, Ryan, Shemin and Sternlieb, all veterans, were back on the floor, raring to go. Several new freshman prospects appeared. Of these, "Whitey" Domin quickly earned a regular berth as center for himself, while Dunsay gave great promise as a substitute forward. Hildebrand, a soph, and "Stretch" Mofsenon looked to be future pivot men, while Eric Behn and Sam Shoor held down the positions of guard for the scrubs. "Shorty" Torop was general utility man for the scrubs.

The squad opened the season by handing Webb a neat trimming to the tune of 42-10, and followed up by noising out Mount Olivet Memorial, 23-22, in a rough-house.

The following Friday, the team went to Pratt confident of victory. After running up a first half lead of 11-4, the team started its heart-breaking career. In a furious second half, Pratt made twenty points to nose the Tech boys out by one point, 24-23.

Hard luck followed the team. In the following game with Brooklyn Poly Day, the team found itself in a 20-20 tie at the end of the game. It took two extra periods to unravel the knot, and Poly came out on top, 24-21.

Tech next went to Hartford, where they dropped a slow game to Trinity, 32-26.

Over the Christmas holidays, the team journeyed to Trenton and Princeton. As was to be expected, they dropped the game with Rider to the score of 47-18. Princeton seemed to be another story in the first half, however, the Cooper men being on the short end of a 14-12 score. In the second half, the rough Rider game of the previous night told on the men, and the final score was Princeton, 36; Cooper, 18.

Again the team gave a thrilling exhibition against Savage, only to see a seven-point lead, gained in the first half, fade away, and the game end 28-24 in favor of Savage.

In the game with Drew, Cooper started as though the hard going had sapped its spirit, the score at the end of the first quarter being Drew 8, Cooper 1. However, the boys turned the tables on the jinx that had been following them, and pulled the game out of the fire, 22-16.



The superior conditioning of the Coast Guard Academy outfit was greatly in evidence as they beat us, 29-21.

At C. C. N. Y., Commerce Day, Cooper held true to form. On the short end of a 17-10 score at the end of the first period, they came through to win by the score of 33-28. This was the first game since the Webb encounter that Cooper made more than thirty points.

The Alumni game, of course, was won by the Varsity (and subs to the tune of 30-15.

At Albany, the team seemed to revert to its form of several years ago, and dropped the game, 31-18.

As a grand finale, before tackling the Night School Team, Cooper played the most thrilling game of the year against Brooklyn College Night School. At no time during the game did either team show a distinct advantage, the score, with three minutes to go, being tied at 22 all. At this point, Salzman dropped a shot for Brooklyn. Cooper started an assault on their opponents' net, only to see their shots roll out of the basket. The issue was still uncertain when, with thirty seconds to go, a Brooklyn man sank a long shot and put the game on ice.

With the Night School game still to be played, the Tech team has won five games out of a total of fourteen played. The outcome of the fifteenth is with the gods.

Under the Basket

ALTHOUGH the team hasn't played championship basketball, according to the managerial staff, the eating ability is second to none. Abe Zeitz leads the team in this respect by half a pound of raisin crackers.

War cry of Cooper going into battle:—"What, no supper money?"

"War horse" Dublin has developed a guarding style all his own. An lbow, knee, or shoulder properly placed keeps the baskets free, says he.

In three of the five games won this year, Cooper overcame an opposing team's first half lead. In four of the nine lost, Cooper saw a first half lead melt away.

The team, unable to give Manager Jimmy heart-failure by the way it lost its games, tried to get him by letting him referee a practice scrimmage. He's still here, though.

Strange doings at Coast Guard. At three A. M. long electric sparks, wet towels, and a painted Freshman broke a perfectly good pinochle game. And then in the morning, Coach woke up to find Behn and Weintraub wrestling atop him.

Nota bene: A hot steam pipe makes a swell wrestling hold. Ask Abe Zeitz.



Crack Team

THE track season for the scholastic year of 1930-31 was officially started at the Second Annual Field Day which was held at the 102nd Engineer's Armory on December 7th, 1930. This Field Day was staged, as was the previous one, by the efforts and financial help of the veterans of last years' team. Space does not permit us to give a complete list of the winners of this contest, but some of the men who won in the events were: J. Laucius, S. Kowaloff, G. Nagoshiner, N. Korn, M. Aruck, A. Hatos, F. Kleinbard, G. Huppert, H. Brenner and H. Folgner.

The alumni team, consisting of Harold Johnson, Paul Dwyer, Jim Carroll and Jerry McLaughlin, was beaten by the regular track team in the 440-yard run. It would be a terrible error on our part not to mention that Irving Farber, of the 92nd Street Y. M. H. A., broke the one mile walk record for the 102nd Engineer's Armory, his time being 6:37, nine seconds slower than the American record. More champs competed in the Invitation Events of this Field Day than in many Metropolitan A. A. U. meets.

As the 1929-30 season of dual meets were held after the Cable of that year went to press, the results did not appear in that issue; therefore, a resume of that season is hereby given. The scores were as follows:

Cooper, 61; Brooklyn College Pharmacy, 16.

Cooper, 38; Savage, 34.

Cooper, 51; Seth Low Junior College, 30.

Cooper, 63; Brooklyn C. C. N. Y., 18.

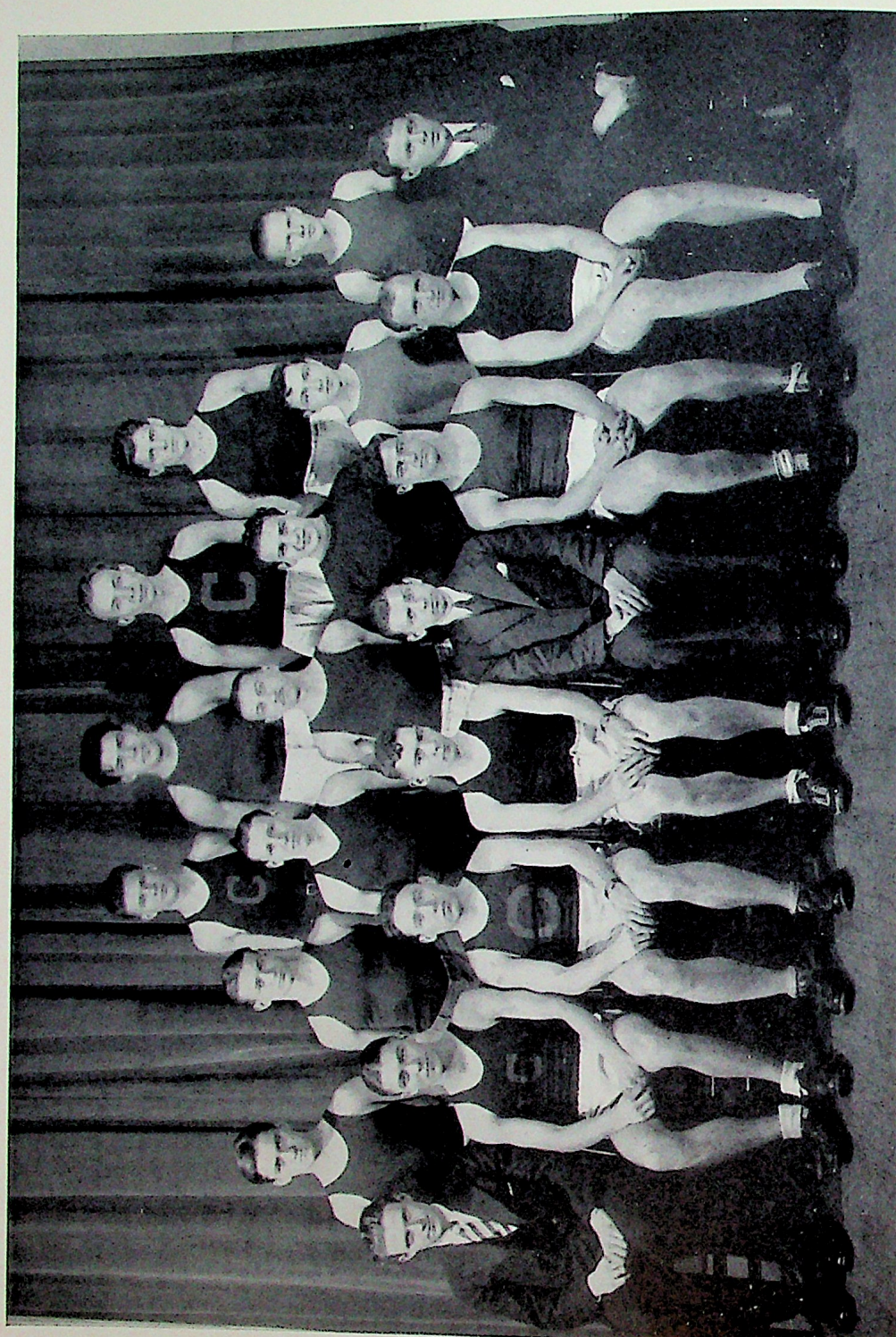
Cooper, 46; Newark College of Engineering, 26.

Cooper, 41; Stevens Institute of Technology, 40.

As can readily be seen from the above list, our boys were victorious in all meets of last year, thereby maintaining the high standard set by the track team since its inception in Cooper Union. (The team has only lost one meet in its five years at Cooper.)

All meets were easily won except the one against Stevens Institute of Technology. In that, the last meet of the season, more hats were ripped and lost by the spectators, and more hoarse throats were in evidence among the competitors than at any match ever staged by the teams of Cooper, because of the close score. Immediately preceding the last event of this contest, the score was Cooper 40, Stevens 32; and the high jump, being the final event of the meet, would decide which was the winning college. If Stevens won all three places in this contest, the score would be 41-40 in their favor; therefore, Cooper had to get at least third place in order to win the meet. The event started with six men jumping, three from each College. The bar was raised again and again until it finally reached the usual limit of Cooper's jumpers. One of their





TRACK TEAM



failed to clear it, while the other two were more successful. One of Steven's men also failed to clear it, thereby clinching third place for Cooper, making us the victors by one point.

The indoor season started with one of the best groups of track men Cooper Union has ever witnessed, and a better record (if possible) is expected this year than ever before.

Some of the meets in the 1930-31 season scheduled to date are Brooklyn College of Pharmacy on April 4th; Savage on April 11th; Seth Low on April 18th; Brooklyn C. C. N. Y. on April 25th; Newark College of Engineering on May 2nd, and Stevens on May 9th.

A new coaching regime has been inaugurated in Cooper Union for the track team. Heretofore, professional coaches have been hired; namely, Coaches C. Warburton, from McGill University, and Jack Kelly, a well-known Metropolitan coach. The teams have been carried through difficult schedules successfully by these coaches. Jack Kelly has done remarkable work with the limited material during the years 1925 to 1929.

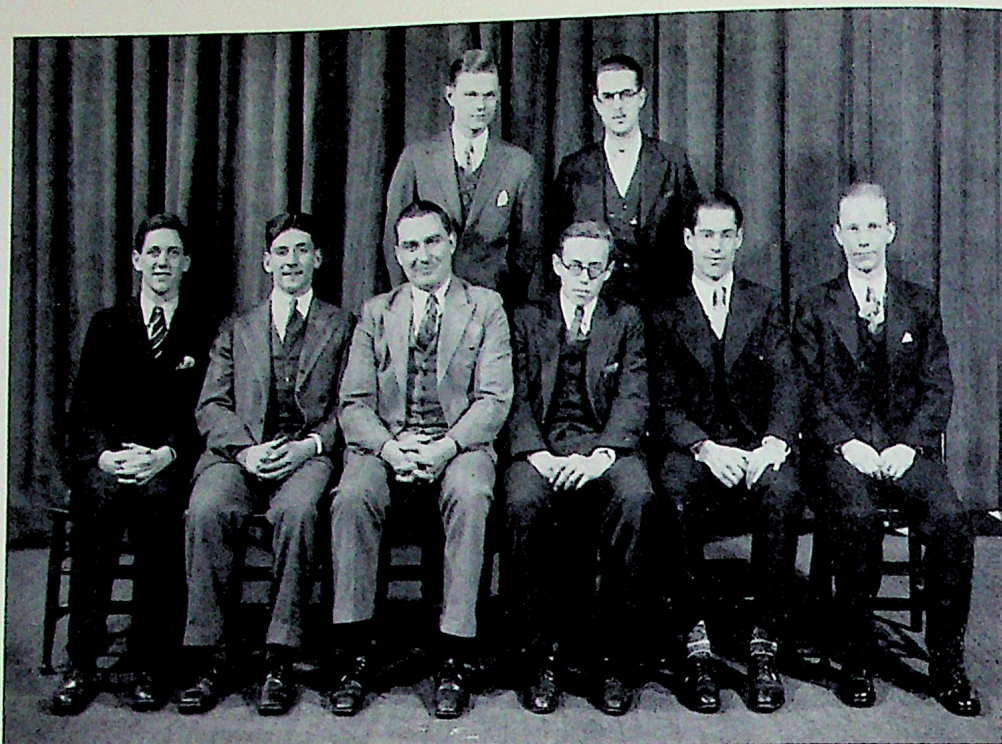
In 1930, due to several reasons, it was found impossible to renew Coach Kelly's contract. For a time it was feared that the team would be forced to disband. Fate appeared to be with us, however, and we were able to secure the services of one of the veterans of this sport at Cooper, the pioneer who originated track in the School of Science and Art—James Carroll. "Jim" was able to arrange his limited spare time so that he would be able to coach the boys in addition to doing post-graduate work at Brooklyn Polytechnic Institute.

During the 1930 season, Cooper was undefeated in all of its six dual meets; some of the contests were close and hard fought, but in the end Cooper emerged with flying colors, having amassed a total of 300 points to the opponents 164. This fact illustrates the success that "Jim" had with the team.

For the 1931 season, we have secured the services of Harold Johnson, Captain of the 1929 team and Assistant Coach in 1930. Hal, along with Jim, have served their apprenticeship under the able coaching of Jack Kelly. The team is being managed by John Carroll, who was acting manager last year in the absence of Cleve Rettig.

If the present team trains as hard as last year's squad, nothing on earth will stop them from coming in victorious over all the Colleges against whom they compete, and thereby add another successful season to Cooper's track records.





TENNIS TEAM

Tennis Team-1931

THE racquet wielders of Cooper Union were right on hand in 1930 to answer Manager Al Sobel's call for tennis candidates. The squad practiced on the 14th Street Armory Courts for several months. Every branch of the school was represented in the team which was selected. Much credit is due to Manager Al Sobel for the excellent schedule he arranged. The team made a wonderful showing until the St. John's College and Fordham University games were played.

Under the leadership of Captain Phil Anthes, the quintet won five matches, was tied once and lost twice. This may be considered a fine achievement, since it is the first time in a number of years that Cooper Union has been represented in intercollegiate circles in this sport.

A great deal of the season's success was due to our outstanding star, Captain-elect Jim Christensen, who, in eight starts at first singles, only lost one match during the season. He also showed great ability by winning six matches out of eight when playing first double with Phil Anthes. We hope Jim continues the good work in 1931.

We had another star, Frank Young, who played very keen matches in



winning his famous deuce sets. Frank is credited with being the only member of the team who enjoys midnight matches.

Manager Sobel played a fast game and made the matches snappy.

He also came through with some very important victories.

Charlie Hinton played an excellent brand of tennis, but was unfortunate in that he made few scores.

Captain Anthes, who injured his right shoulder during the Brooklyn Polytech game, had a tough time handling his single assignments, but fared a great deal better in the doubles.

The substitutes did not get much chance to show what they could do because of few workouts.

The following summary will speak for itself:

In the first match of the season, Cooper defeated Brooklyn City College to the tune of four matches to two.

Cooper next defeated Pratt Institute by a score of four to two.

In the third match, Cooper went on the warpath and trounced State Teachers College of New Jersey (Upper Montclair), five to zero.

Cooper then added Brooklyn Polytechnic Institute to its list of victims, beating them three to two.

The team suffered its first reverse in the next match at the hands of the strong St. Johns College team, losing by a score of seven to zero.

Cooper was tied by Manhattan College in the next match, after an exciting battle, the score being three to three.

The seventh match was Cooper's only other defeat. Fordham University beat Cooper by the score of five to two.

The season ended with a smashing wind-up in Cooper's second victory over State Teachers College of New Jersey (Upper Montclair), the results being six to one.

The team was managed by Al Sobel and his assistant, Phil Anthes.

The regular line-up of the team was: 1st singles—James Christensen; 2nd singles—Phil Anthes; 3rd singles—Al Sobel; 4th singles—Frank Young; 5th singles—Charles Hinton.

1st Doubles—Jim Christensen and Phil Anthes.

2nd Doubles—Al Sobel and Frank Young.

Substitutes—John Hildebrand, Harold Thames.

Phil Anthes was appointed the next manager of the tennis team.

Jim Christensen was elected Captain and appointed Assistant Manager.





HANDBALL TEAM

Handball, 1930

THE schedule that the Handball team had to face was a tough one. Due to the fact that the Metropolitan Conference Schools, outside of New York University, did not have handball squads, the team had to go out of its class for competition and, in spite of this, the team broke into the winning column.

The familiar faces of Capt. Dolle, Charlie Torzilli, and Julie Lowenthal will no longer be seen on the old courts, but promising new men will fill their places and lessen the keenness of their loss.

This year's team has won one match, against Sloan House Y. M. C. A., and lost six up to date. The matches that were lost were all by close scores, which fact does honor to the men in face of such competition. However, the team hopes to come through in the two remaining matches and swell our winning column.

The members of the squad included the following men: Capt. Gus Dolle, Mgr. Jerry Nakos, Ray Leary, Jack Laitman, Mike Stolarsky, Cherin, Rief and Port.



RIFLE TEAM

Rifle Team, 1931

WHEN June, 1930 rolled around, the Rifle team saw the greatest exodus of stars in this newest of Cooper's sports. Our brilliant Captain, Alger, was leaving school along with such sterling men as Hinton, McConaghy, Champlin, and Rudiger. The last named is making a name for himself as a member of the Cornell Rifle team.

However, in spite of our great losses, the new Captain, Theodore Kalisher, with the assistance of David Rabinow, manager, set about rebuilding the team in order to present a solid front by the time the annual competition in the New England Intercollegiate Rifle League rolled around. While the schedule is about to begin as this goes to press, the team has already engaged in several non-league matches, and the results promise great things for the team in the league matches. The schedule follows:

Week of Feb. 7th—Connecticut Aggies.

Week of Feb. 14th—Massachusetts Institute Technology.

Week of Feb. 21st—Boston University.

Week of Feb. 28th—Worcester Poly.



Week of Mar. 7th—Warwick University.

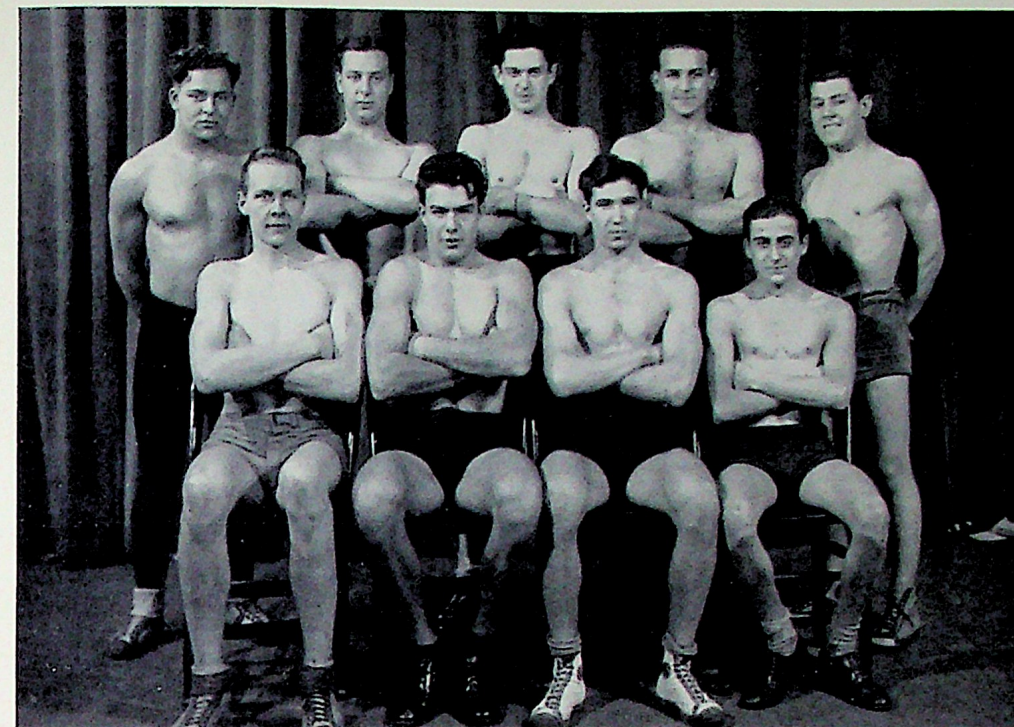
Week of Mar. 14th—Rensselaer Poly.

Week of Mar. 21st—Vermont University.

It can be seen from the above schedule that it is not an easy one, and that college teams of the highest rank are to be encountered. Other non-league matches scheduled for the team include Cornell, N. Y. U., Brooklyn Poly, and Stevens Tech. Toward the end of March, it is the intention of the officers to arrange a trip to Annapolis to the U. S. Naval Academy, to participate in the intersectional shoulder-to-shoulder matches for the National Intercollegiate Championship. The Cooper Team will then have a chance to show the stuff that all the great teams are made of.

During the month of January, 1931, there were held at the range of the 212th Regiment Armory the series of annual interclass matches. At current writing, the Sophomore team of Lytle, Stepsis, Gluck, Mily, and Hildebrand, is leading the way with the Juniors still to be accounted for. Handsome gold-bronze medals are awaiting for the winning team. The runners-up are to be presented with "Cooper" pennants.

Immediately after the exams in May, the members of the Rifle Club shall entrain for the happy hunting grounds at and around Camp Smith, at Peekskill, N. Y., where the facilities of several outdoor ranges will be placed at our disposal for the duration of one week. All the amusement places in and around Peekskill will do a rushing business while the Cooperites are in town, and then peace will descend on the old town again as the Seniors put aside the final things that connect them with the Rifle team.



WRESTLING TEAM

Wrestling

THIS team has a short but remarkable history. The funny thing about it is that a member is not more than a second year man. The organizing took place this year, and here we have an example of what good organizing and managing will do. Despite the short period of organization, the team has been completely scheduled for this season.

It was a first year man, Mike Fexas, who undertook the job of organization. He secured a fellow classmate, Abe Fischler, who as Assistant Manager and Publicity Man, helped the team on its way. When a call was first sent out for material, the bulletin was crowded with names, but at first practice, a mere dozen men showed up. This didn't look so heartening at first, but luckily, the men who did show up were the type who stick. Fexas had no trouble in securing a clubhouse for the fellows, and training was held twice a week at the Hermes Club. Every member of the team paid his club expenses and general expense for meets.

The A. O. had agreed to recognize the team with the condition that expenses be assumed by the team itself. This settled, the building up process



continued under way. In the meantime, another team in formation was beginning to fall to pieces, showing a contrast between good and bad managing.

February 1st, the clubhouse was moved to another establishment. The team seems to be having trouble about the financial conditions involving itself with the club, but Fexas said that with some friendly influence he would iron out the difficulty for the future.

Although the first two meets were defeats, still, it is no reason to make the boys bow their heads with shame. The first meeting being with the Hermes Athletic Club, and the second with the Madison Ave. Presbyterian Church, two strong teams, you will notice. Here it was a case of greenhorns trying to tackle some experienced men.

Incidentally, there are only two fellows on the team who have ever wrestled before. They are Fexas, the 155-lb., and Kaplan, lightweight. Calcanti, the 165-lb., a novice, is acquiring the balance and technique which characterizes a good wrestler.

The same might be said about the other men. In dire need of a 115-lb. man, Fexas has resorted to the last straw by asking Fischler to wrestle in that class. There seems to be keen competition for the regular position in the 145-lb. class, but so far Dardick is the headman. Kaplan, our champ lightweight (former Southern Tri-State champ), has won every one of his meets so far, to show the right to his championship.

The manager would like to stress the fact that new material is always welcome. If you think that wrestling does not build you up, just gaze at the picture of the team.



Baseball, 1930

As the 1931 season comes steaming down the home stretch let's bunt one along the first base line while we turn over an old leaf and review last year's baseball line-up.

Premature practice put plenty of what it takes to toss the old pill, into the whips of prospective candidates. Manager Gus Borer did the seeding and weeding and a right tall task it was since he had to organize from the ground up—due to the lack of a team in 1929.

The 1930 schedule included—Stevens Tech, Upsala, Wagner, Arnold College, and the U. S. Coast Guard Academy. Much might be said about these last two games which entailed a five day trip to New Haven and New London. The team was royally received and during the interim between contests the players disported themselves about town or in the cold Atlantic, enjoying the pleasantries which were so manifest.

The Stevens game—the first of the season—caught the team as it rounded first but served excellently as a gage by which to measure future progress. No, we didn't win any games. When next the team faced Upsala, Cooper Cudgels were not swung in vain, for the opponents were outhit by a goodly margin. This, coupled with the superb hurling of Taylor should have insured a Tech victory but in the last innings the Cooper defense went to pieces.

Thus, with diligent practice and by bolstering weak points, teamwork improved rapidly until finally an aggressive, fast stepping aggregation took the field against a strong Coast Guard Crew. Cooper led by 1-0 until the eight, at which time two doubles in quick succession and an error at first allowed the winning tally to cross the plate for the sailors.

The team consisted of: Mgr. Borer, Taylor, Ryan, pitchers; Poignand, Drago, catchers; Murphy, Benesh, Berg, Gray, Karathanasis, infielders; Romeo, Peters, Sternlieb, Wichmann, outfielders.

The 1931 season includes so far: Stevens, Wagner, Seton Hall, N. Y. State Teachers' College, and Webb.

Every team likes to win and every team plays to win but those comprising a losing team become the real sportsmen. Consequently, this year we expect to make sportsmen of all our opponents.



MAROON & GOLD

19 **C** 31

AWARDS

Institute of Technology

BASKETBALL

*Major "C"*J. Cohen
DominE. Ryan
G. Shemin
E. SternliebS. Weintraub
A. Zeitz*Minor "C"*E. Behn
E. Keller
S. DunsayW. Eddy
J. Hildebrand
M. DublinJ. Mofenson
S. Shoor
R. Torop

BASEBALL

*Major "C"*J. Benesh
E. Berg
A. BorerJ. Murphy
W. Peters
M. PoignandE. Ryan
E. Sternlieb
N. Taylor*Minor "C"*

E. Drago

N. Karathanasis

RIFLE

*Major "C"*H. Gluck
T. KalisherJ. B. Lytle
D. Rabinow

J. Stepsis

*Minor "C"*H. Clark
W. EddyF. Inslerman
P. LambertC. Mily
J. Murphy

Two Hundred Forty-six



D. ROSS LOVEJOY,
class of 1899. The first
to isolate atmospheric ni-
trogen and the apparatus
which he used for this
purpose.

The **ORGANIZATIONS**

MAROON & GOLD

19 **C** 31

AWARDS

Institute of Technology

BASKETBALL

Major "C"

J. Cohen
Dunham

E. Ryan
G. Shearer
E. Sterlich

Minor "C"

E. Behn
H. Keller
S. Dunsey

W. Eddy
J. Hilobrand
M. Dublin

BASEBALL

Major "C"

J. Benesh
E. Berg
A. Borer

J. Murphy
W. Peters
M. Poignand

Minor "C"

E. Drago

N. Karabinas

RIFLE

Major "C"

H. Gluck
T. Kalisher

J. B. Lytle
D. Rabinow

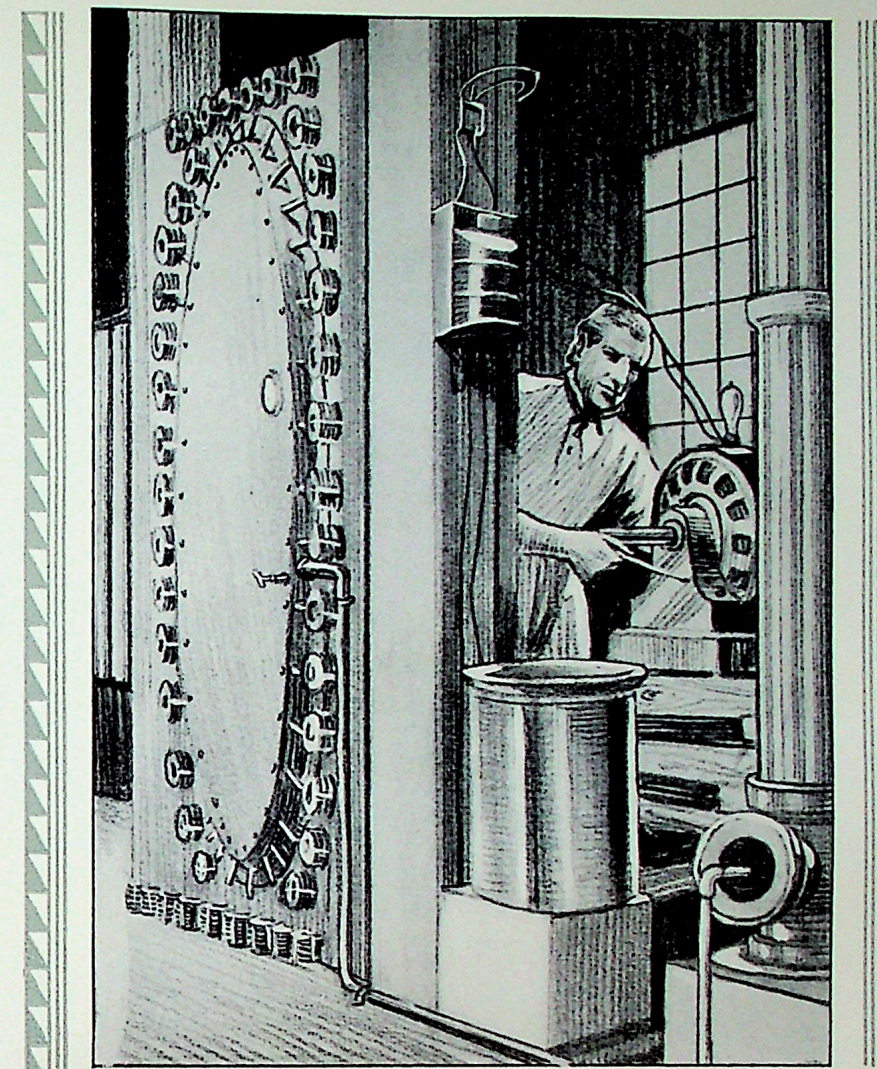
Minor "C"

H. Clark
W. Eddy

F. Inslerman
P. Lambert

C. Mily
J. Murphy

Two Hundred Forty-six



D. ROSS LOVEJOY,
class of 1895. The first
to isolate atmospheric ni-
trogen and the apparatus
which he used for this
purpose.

The **ORGANIZATIONS**

Ex Post Facto



1932

ERNEST S. LUNDIE

Chairman

Vincent C. Cody
Joseph Marraccino Jr.
Ralph Windrum
Marte Previti
August Mundell

Jeremiah A. Musilek
Philip S. Anthes
Fred Stein
Stanley Slezak
William O'Donnell

George Tuscher

1931

GEO. A. CROWTHER

Chairman

1930

JOSEPH J. FODY

Chairman

James W. Philips
Sven E. Stromberg

1929

CHESTER E. VOORHIS

Chairman

Herbert Laber

1928

EUGENE W. BRASS

Chairman

Alexander Johnson

1927

FRANK G. COSMEN

Chairman

John J. Gemmelli





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KASKELL KALLMAN

Athletic Organization

ANTON SPARR





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School of Architecture

President

BERTRAM J. BERTOLAMY

Vice-President

JOSEPH MARRACCINO, JR.

Secretary

REVA D. SEGALL

Treasurer

HARRY T. MALMQUIST

Sol Robinson
Philip S. Anthes
Frederick M. Sheffield
Louis Podell
Joseph Sinnor
P. T. Barrows

L. R. S. Barnes
Joseph M. Boccio
Albert H. Milstein
Raymond Walsh
George T. Taylor
Harry A. Demars

Wesley P. Stevens





STUDENTS COUNCIL, SCHOOL OF ART

*Students Council*

School of Art

President

EUGENE ROSSI

Vice-President

EDWARD LIEB

Secretary

MARIETTE PRUYN

Treasurer

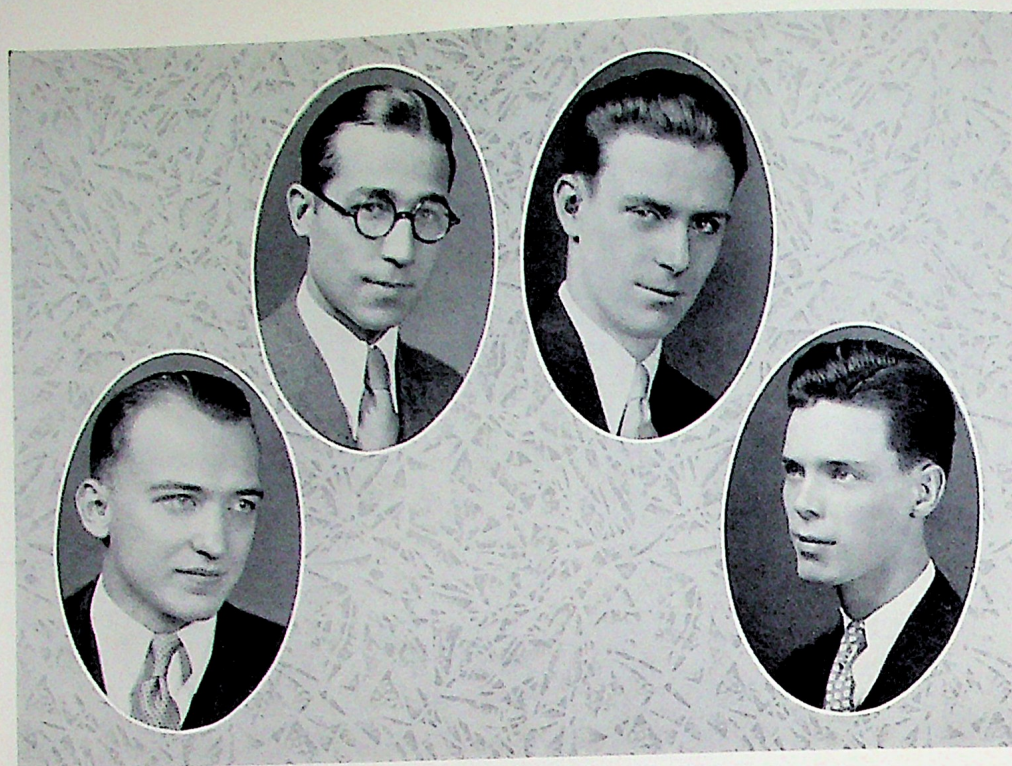
WILLIAM O'DONNELL

Joseph Christy
 Alfred Roffman
 Julius Goldenberg
 Samuel Simon
 Sam Hoffman
 Frank Pagnato
 Ansel Jacobi

Irving Sheib
 James Secundo
 Andrew Celestino
 Joseph Cappello
 Paul Seidman
 Raoul L'Hote
 David Kern

Lewis Goren





Athletic Organization

School of Science and Art

President
ANTON SPARR

Vice-President
JOHN T. CARROLL

Secretary
STANLEY SLEZAK

Treasurer
EDWARD D. BADEY

TEAM MANAGERS

Football
ALFRED ANASTASIO

Track
JOHN T. CARROLL

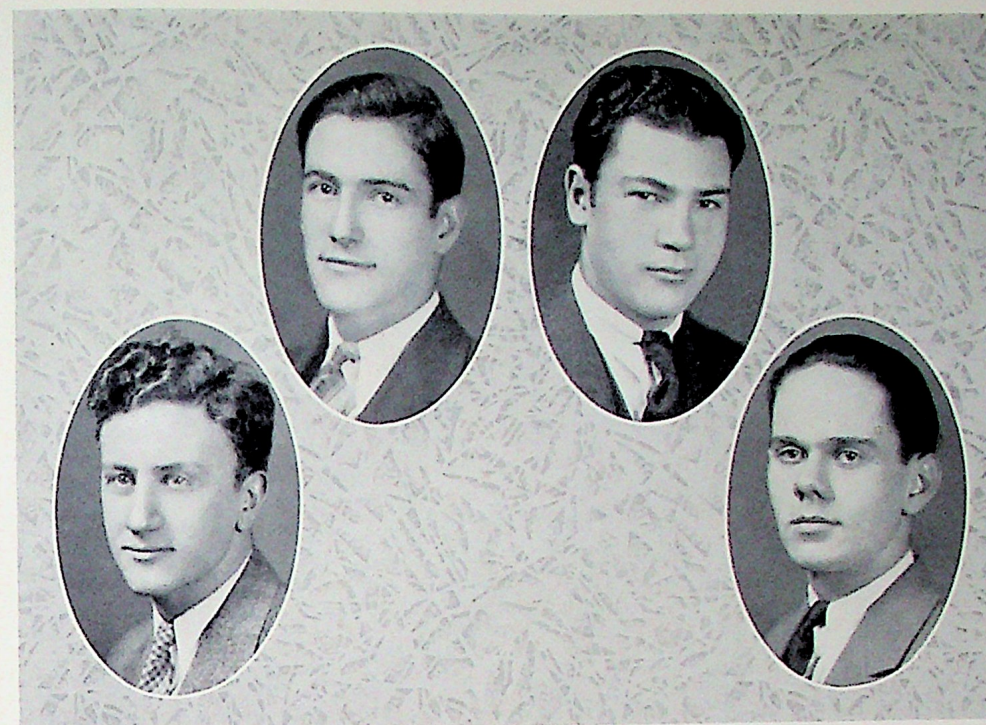
Wrestling
MICHAEL FEXAS

Basketball
ANTON SPARR

Tennis
PHILIP ANTHES

Handball
JOHN NAKOS

Two Hundred Fifty-eight



Athletic Association

Institute of Technology

President
JAMES J. MURPHY

Secretary
SIGMUND WEINTRAUB

Vice-President
GEORGE SHEMIN

Treasurer
WILLIAM O'DONNELL

TEAM MANAGERS

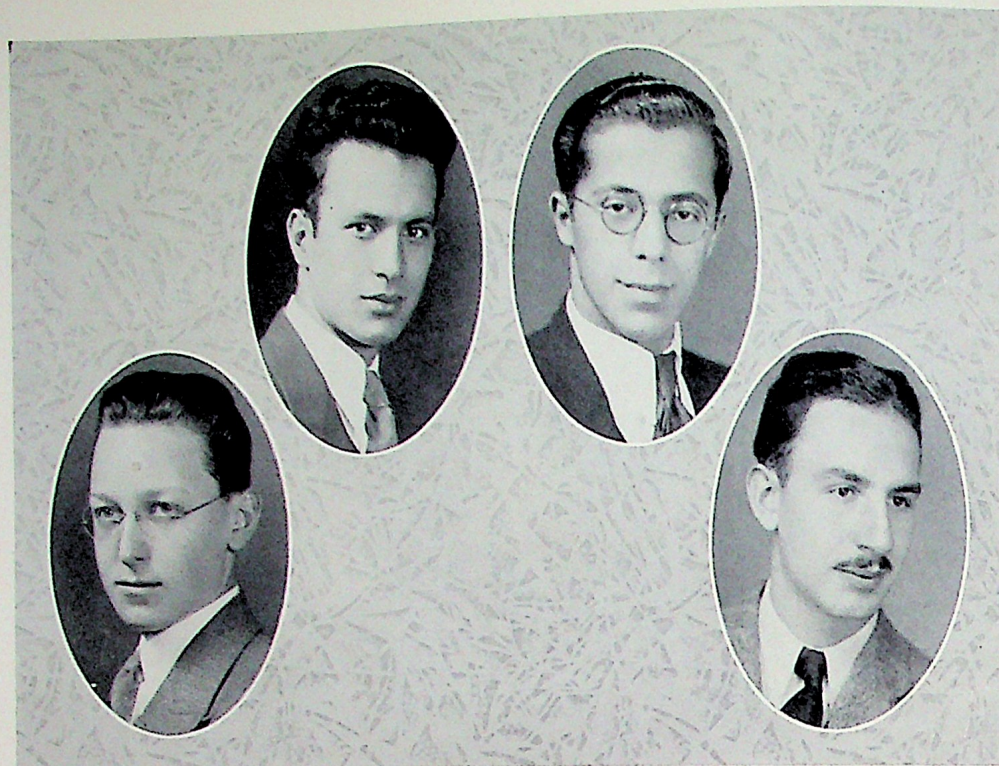
Basketball
JAMES COHEN

Baseball
AUGUST J. BORER

Rifle
DAVID RABINOW

Two Hundred Fifty-nine





American Institute of Chemical Engineers

Student Branch

Chairman

JAMES COHEN

Vice-Chairman

IRWIN FINKELSTEIN

Secretary

ROBERT WOLINS

Treasurer

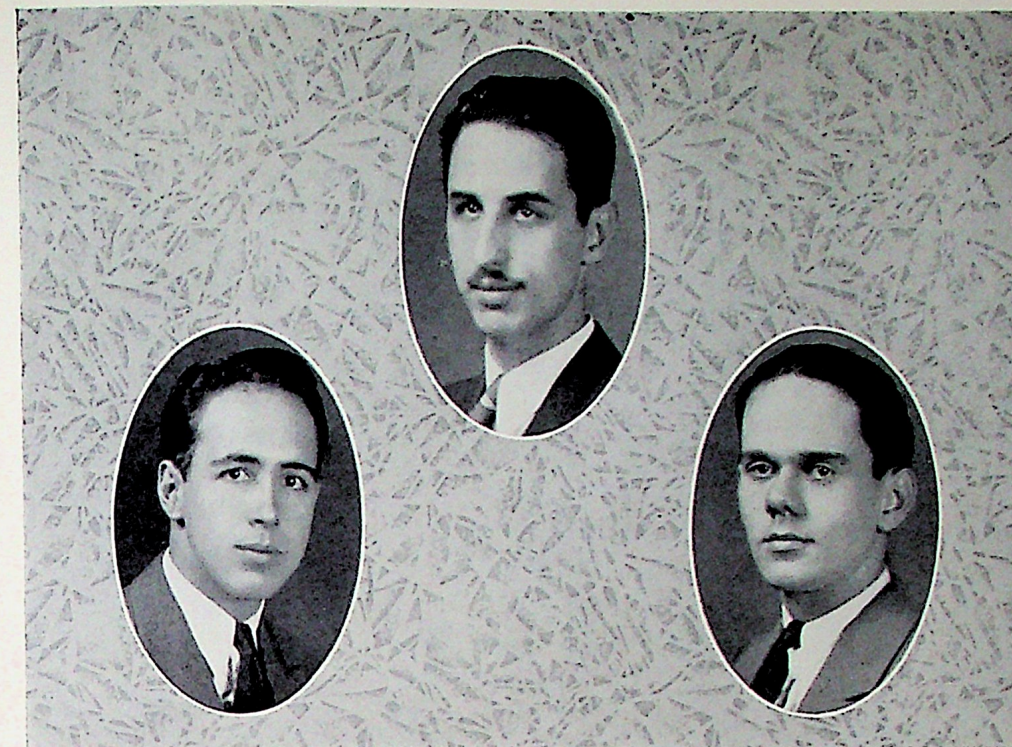
LEON FISHBACH

THE STUDENT CHAPTER OF THE AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, the youngest of the engineering societies of Cooper Union, has now been in existence for three years.

A new policy has been introduced in the manner of conducting the meetings. To allow more time for the speaker's talks, business meetings were held separately. During the course of the year, three business meetings took place, one each in October, February and April.

Guest speakers were chosen from men who have succeeded in their line of work. Two of the most interesting talks of the year were those given by Mr. Southgate and Dr. Newman.

Two Hundred Sixty



American Society of Civil Engineers

Student Branch

Chairman

JOSEPH G. WEINRUB

Vice-Chairman

HOWARD I. EMERY

Secretary-Treasurer

WILLIAM J. O'DONNELL

Faculty Sponsor

FREDERICK E. FOSS

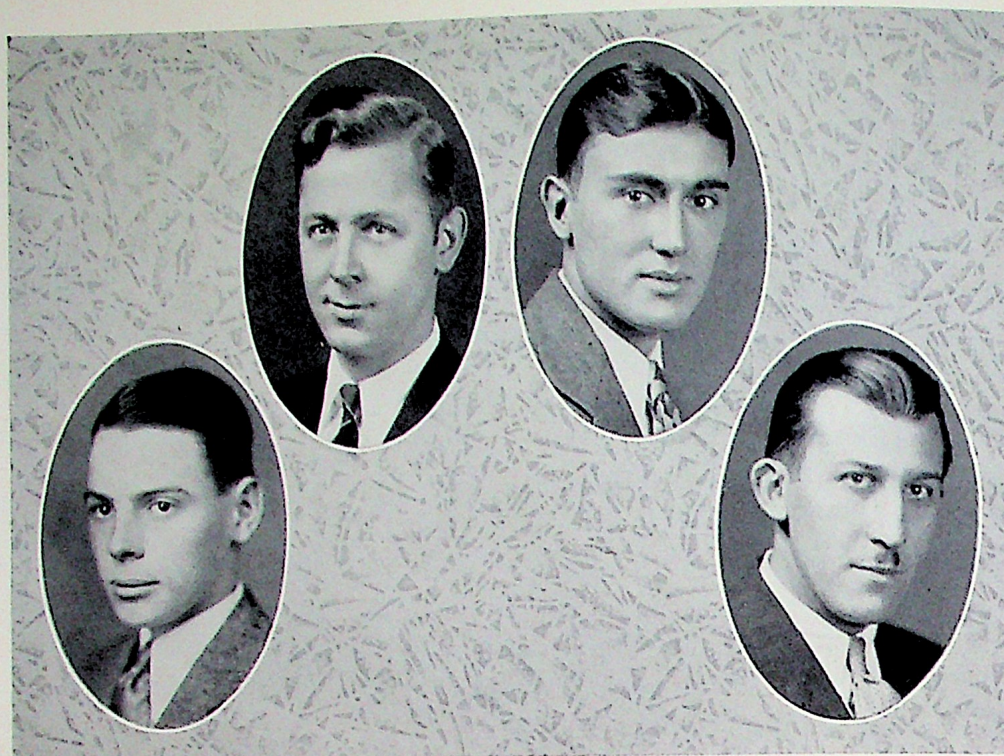
SINCE its organization in 1924, the Cooper Union Student Chapter of the American Society of Civil Engineers has won popularity throughout the school by its many interesting meetings.

The first speaker of the year was Mr. James Haines, of the A. J. Construction Company. Mr. Haines presented a topic, namely: "Building Values in Dollars and Sense", which proved to be exceedingly interesting due to the wide experience of the speaker along these lines.

At the next meeting, a motion picture entitled "Manufacturing with the Stable-Arc Welding", was presented through the courtesy of the Lincoln Electric Company.

Two Hundred Sixty-one





American Society of Mechanical Engineers

Student Branch

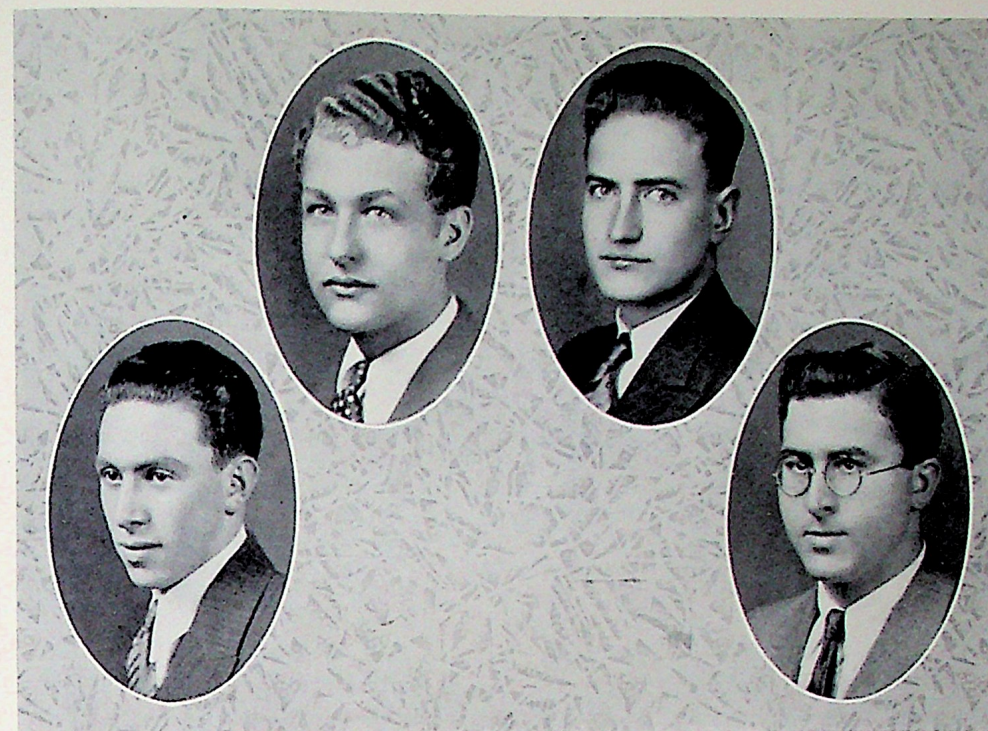
Chairman
ROBERT LAUER

Secretary
WILLARD T. EDDY

Vice-Chairman
WILLIAM A. VOPAT

Treasurer
FRANK SVUGER

THE activities of the A. S. M. E. student branch started rather late in the year but several meetings have been held. At one of these Mr. Vopat gave an excellent talk on the East River Generating Station. In December the branch had one member present at the entire student branch program, while several others were able to attend the conference. In the latter part of December inspection trips were made to the Daily News Plant and the S. S. Shodack. Several other interesting meetings and trips are planned for the rest of the year.



American Institute of Electrical Engineers

Student Branch

Chairman
HERMAN GRISSLER

Secretary
AUGUST B. MUNDEL

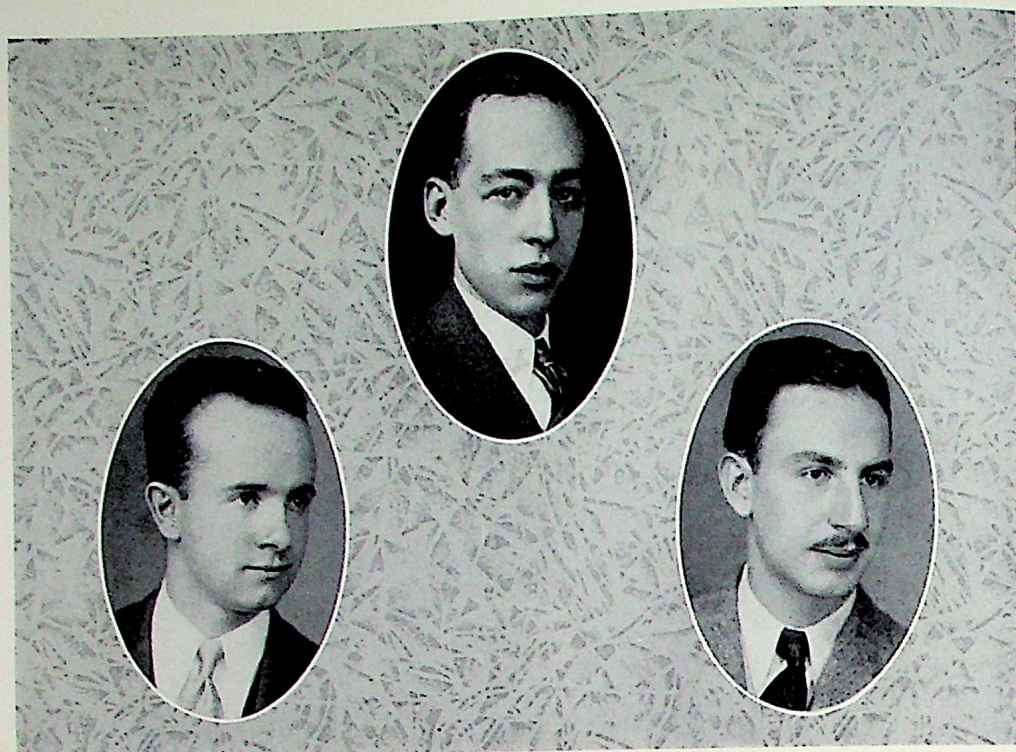
Vice-Chairman
AUGUST DOLLE, JR.

Treasurer
HYMAN LASCHIVER

THE principal purpose of the student branch is to function as an instrument for aiding in the development of the latest abilities of students. There is no knowledge that will be of greater value to the student in the future than the ability to stand before an audience and present his ideas clearly and convincingly.

With this end in view the student branch has endeavored to give as much time as possible to the student speaker and to have as many student papers as can be secured. The members of the Electrical Engineering Dep't. have been helpful in this cause and have offered their aid to students preparing such papers.





Mathematical Society

Night School of Engineering

President
H. HARRIS

Secretary-Treasurer
A. L. FISHBACH

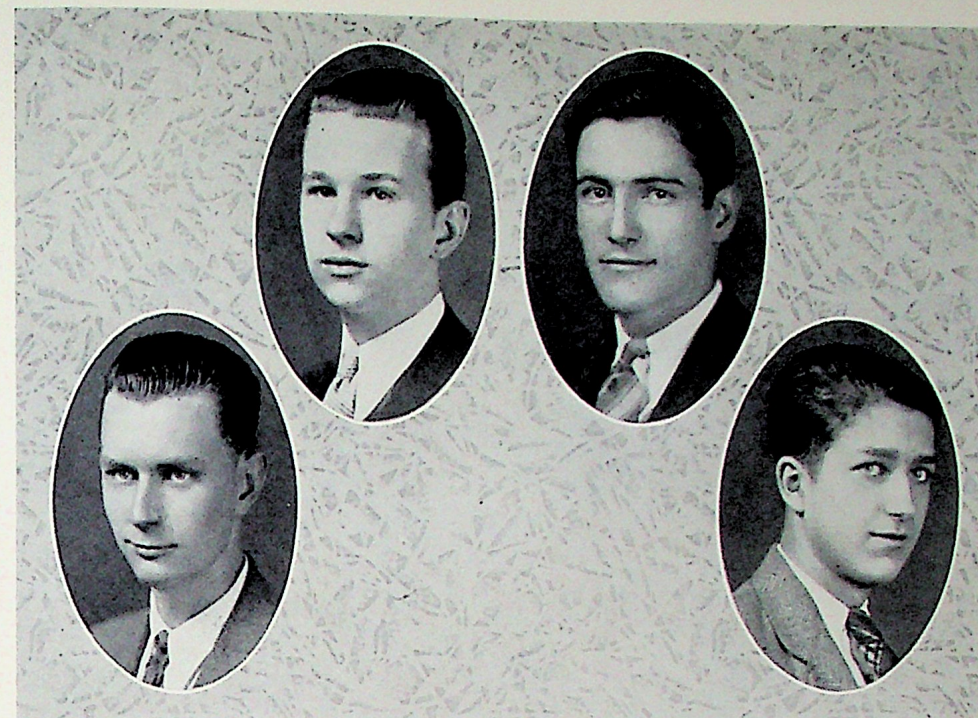
Vice-President
J. JACKMAN

Faculty Advisors
MR. BEILER
MR. TANZOLA

To discuss mathematical topics not covered in classes, as well as to keep abreast with the more recent developments of mathematics, was the basis of the formation of the Night School Mathematical Society. Completing its fourth year of existence at Cooper Union, has established itself as a society wherein these purposes could be accomplished, and afford an opportunity for those who are interested to secure a more intimate knowledge of mathematics.

The program of speeches indicates the type of topics dealt with at the meetings. Messrs. Harris and Jackman spoke at the opening meeting on Magic Squares. Mr. Gelbart followed with "Some Theories of Numbers", and Fishbach on "Time as the Fourth Dimension". Mr. Gelbart addressed the society on "Harmonic Ratios", and Mr. Duffy on "Non-Euclidean Geometry". Wartelsky spoke on "Theories of Rapid Division".

Two Hundred Sixty-four



Mathematical Society

Institute of Technology

President
LESTER KENWORTHY

Secretary
JOHN W. KINKEL

Vice-President
JOHN J. MURPHY

Treasurer
CARL KROPP

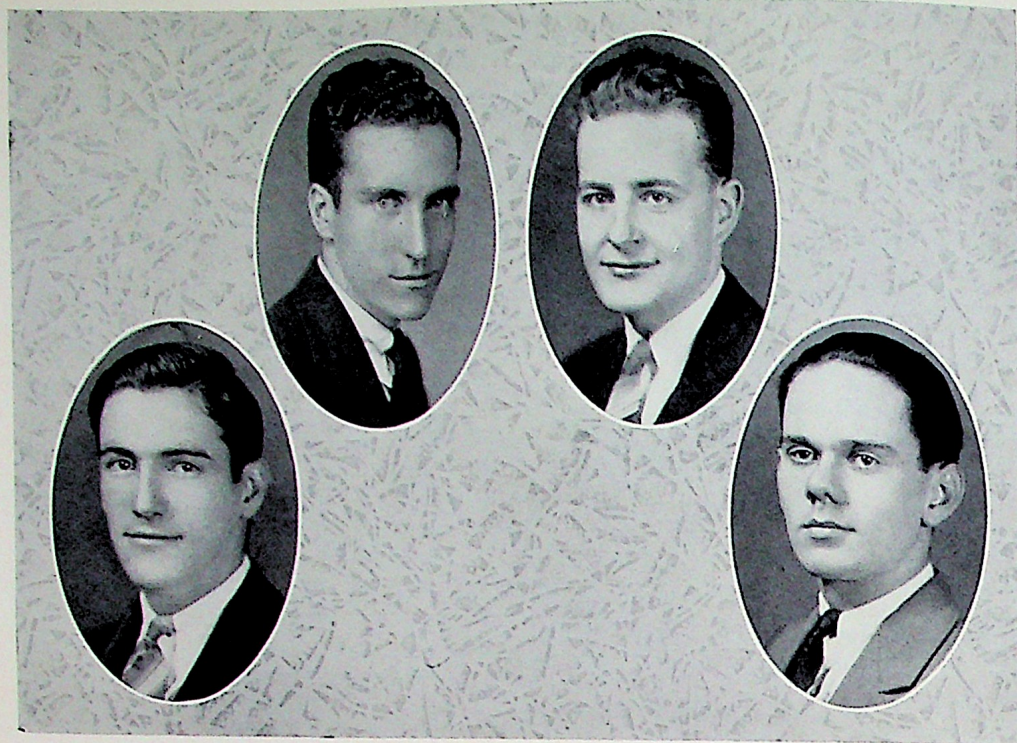
THE Mathematical Society of the Institute of Technology has for its purpose the fostering of interest in all branches of mathematics among the students of the Institute. Toward this end the society conducts regular meetings throughout the school year at which papers on subjects of mathematical interest are presented by students or mathematicians of note.

The first talk of the present year was given by Mr. Fred Miller of Columbia University, an alumnus of the Institute of Technology, on the subject of "Transformations". Other talks were given throughout the year by students on "The Slide Rule", "Algebraic Charts", "Harmonics", and "The Tri-section of an Angle".

The last two talks were delivered by Mr. Hartmann of the Bureau of Standards, Washington, D. C. and Professor Pickett.

Two Hundred Sixty-five





The Newman Club

President

JOHN J. LANIGAN

Vice-President

RAY KUNZ

Assistant Lecturer

CASIMIR CIESIELSKI

Corresponding Secretary
MARION ULRICH

Lecturer

JAMES J. MURPHY

Recording Secretary

GEORGINA STRUNZ

Treasurer

WILLIAM J. O'DONNELL

EIGHT years ago the Newman Club began its existence at Cooper Union. Today it forms an integral part of the school life of Catholic students in the Day, Night, and Art schools.

The club was organized to promote the spiritual welfare of Catholic students, to further the interests of its members, and to perpetuate the friendships formed by them during their college life.

The past year marked a period of interesting and educational activities in the club. The monthly meetings at Newman Hall were diversified with interesting lectures by the Chaplain. The Corporate Communion and breakfast was an impressive and memorable part of the year's program. Informal social gatherings were also prominent on the club calendar.



The Alumni Federation of Cooper Union

President

R. C. COFFIN, '10, '14

First Vice-President

H. D. WILLIAMS, '85

Second Vice-President

W. H. WAGNER, '03

Secretary

G. F. BATEMAN, '03

Treasurer

A. HILBERT, '98, '01

Third Vice-President

WILFRED A. MILLER, '03

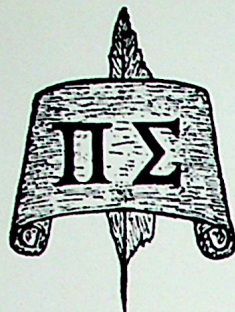
THE ALUMNI FEDERATION came into being just prior to the World War, as the result of the recognition of the need of an agency to bring the alumni organizations of the various schools into closer relationship. It was recognized that there are alumni activities which concern graduates of all the schools, and which required for their fulfillment an organization broader in scope than any one of the departmental alumni.

The Federation, as at present constituted, consists of four representatives from each school or department of Cooper Union, two of which are annually elected by the Alumni organization of each of these schools. There is no such thing as individual membership in the Federation. Its only members are the participating alumni bodies, and individual membership is in them only. The Federation therefore strongly urges each student, upon graduation, to affiliate himself with the alumni association of his particular school and so keep in touch with general alumni matters by virtue of the membership of that organization in the Federation.

The financial requirements of the Federation are met by assessments against the participating Alumni bodies in accordance with their active membership, and are based on an annual budget submitted for their approval.

The list of activities of the Federation includes the Alumni Dinner; the suitable celebration of Founder's Day; the decoration of Peter Cooper's Statue in Cooper Square on Founder's Day; the decoration of the Cooper graves in Greenwood Cemetery on Memorial Day each year; the maintenance of an employment service for students and graduates; the gathering of funds for various purposes connected with Cooper Union, notably to match the Rockefeller Foundation gifts, etc., and generally speaking, any matter which concerns more than one Alumni organization or Cooper Union at large.





Pi Sigma

Jack Baliff
William Battista
John Carroll
Casimir Ciesielski
James Cohen
Sol Cooper
Herman V. Cottony
Jack Decoste
Reuben Goldman
Harold Hoffman
Felix Inslerman
Kaskel Kallman
R. H. C. Kastens
Kenneth McLean

James J. Manning
May Murry
George C. Neuschaefter
William J. O'Donnell
Ben Oill
Thomas Palades
Mathew Rosenstock
Gilbert Saunders
Louis Sherman
George Sikofsky
Joseph F. Skelly
Anton Sparr
Joseph Wallace
William Wechter

Jeanne Wolins

HERMAN GRISSLER
Chairman

LILA V. BELLIN
Vice-Chairman

AUGUST B. MUNDEL
Secretary-Treasurer

P I SIGMA, the society composed of those who have given a year of service to the *Pioneer*, is rounding out the second year of its existence. This year's annual affair is expected to be another huge success. Last year's was held at the Village Grove Nut Club, where the members gave themselves over to an evening of hilarity with dancing on the 2 x 4 dance floor of the establishment.



Two Hundred Sixty-eight

Mu Alpha Omicron Honorary Fraternity

Institute of Technology

FRATRES IN FACULTATE

Blanford A. Alger
Olaf G. Gerdin
Carlyle W. Miller
Emanuel A. Salma
Herman Stemper
Norman L. Towle

FRATRES IN COLLEGIO

Howard S. Clark
James J. Murphy
Willis D. Peters
David Rabinow
William A. Vopat

Two Hundred Sixty-nine



GOLD

19 **C** 31*Student Council Honor Award*

Philip S. Anthes
Edward D. Badey
Garfield J. Bardes
Walter C. Bersig
Bertram J. Bertolamy
Philip F. Brueck
John T. Carroll
Vincent C. Cody
John B. De Coste
Kaskell P. Kallman
Adam J. Kemmer
Raymond J. Kunz

Robert J. Lauer
Kenneth E. Lofgren
Ernest S. Lundie
Harry T. Malmquist
Joseph Marraccino, Jr.
Jeremiah A. Musilek
Marte Previti
Stanley T. Slezak
Anton Sparr
Fred C. Stein, Jr.
George Tuscher
Leopold Van Blerkom

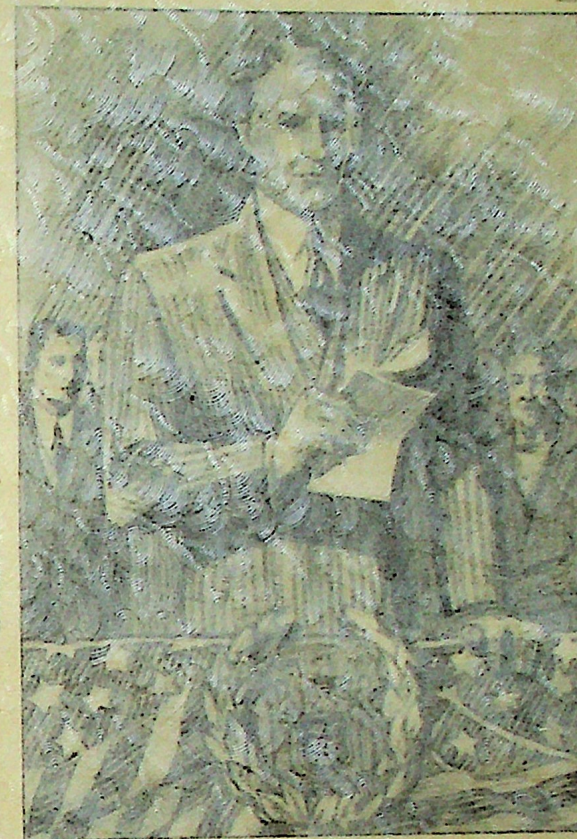
Ralph Windrum

Tech

Jack Baliff
James Cohen
Willard T. Eddy
Herman Grissler
John J. Lanigan

James J. Murphy
Henry O. Nilsson
William J. O'Donnell
George O'Sullivan
Willis D. Peters

David Rabinow



MORGAN F. LARSON,
class of 1907, Governor
of the State of New Jersey.

THE
FRATERNITIES...



GOLD

19 C 31

Student Council Honor Award

Philip S. Anthes
Edward D. Badcy
Garfield J. Bades
Walker C. Bersig
Bertram J. Bertolamy
Philip F. Brueck
John T. Carroll
Vincenz C. Cody
John B. De Coste
Kaskell P. Kallman
Adam J. Kemner
Raymond J. Kunz

Robert J. Lauer
Kenneth E. Lofgren
Ernest S. Lundie
Harry T. Malmquist
Joseph Mariaccino, Jr.
Jeremiah A. Musilek
Marte Previti
Stanley T. Slezak
Anton Sparr
Fred C. Stein, Jr.
George Tuscher
Leopold Van Blerkom

Ralph Windrum

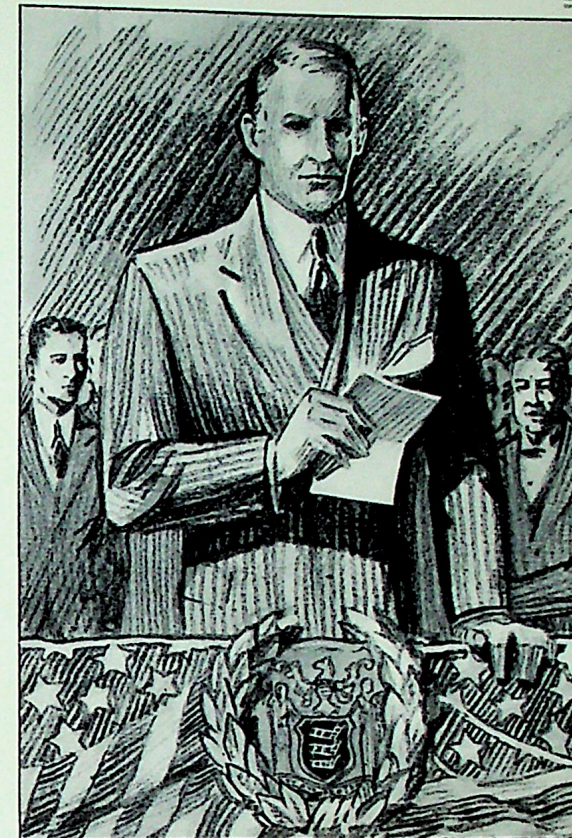
Tech

Jack Baliff
James Cohen
Willard T. Eddy
Herman Grissler
John J. Lanigan

James J. Murphy
Henry O. Nilsson
William J. O'Donnell
George O'Sullivan
Willis D. Peters

David Rabinow

Two Hundred Seventy



MORGAN F. LARSON,
class of 1907. Governor
of the State of New Jersey.

THE FRATERNITIES...



The Interfraternity Committee

Omega Delta Phi, Alpha Chapter

Sigma Alpha Pi

Alpha Mu Sigma, Alpha Chapter

Lambda Sigma Kappa

Sigma Iota Xi, Epsilon Chapter

Phi Sigma Omega

Omega Delta Phi, Delta Chapter

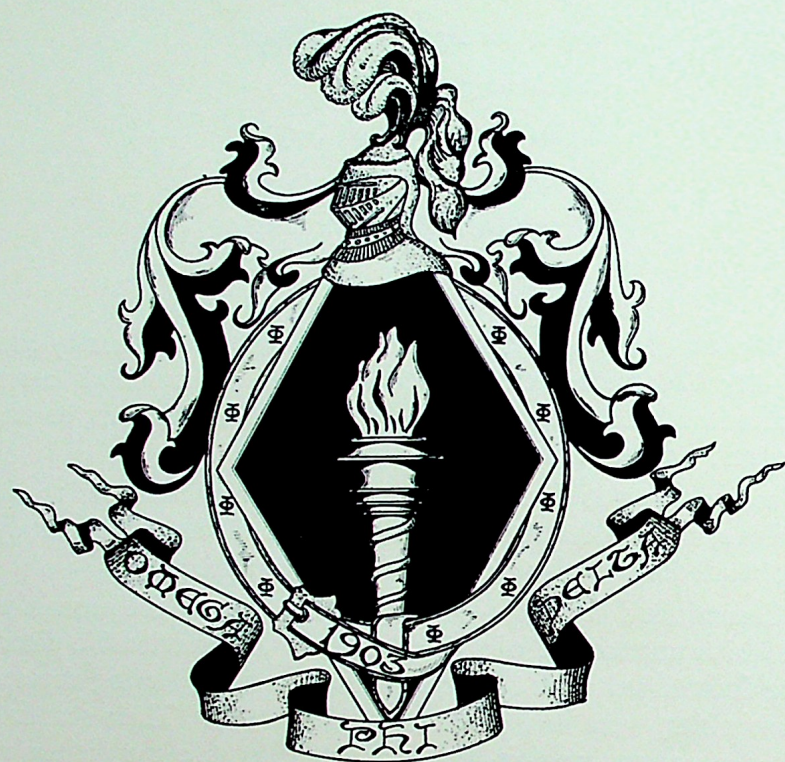
As a result of a long felt need for co-ordination of fraternity activities, an Interfraternity Committee was formed last year. Unanimous response was obtained from both Day School and Night School Fraternities, so that considerable progress has been made to date.

The committee was formed to elevate fraternity activities to the highest possible plane, to instill a stronger school spirit in the student body, and, in general, to work for the advancement of The Cooper Union.

The Committee's first major problem was to correct the unsatisfactory conditions to which unrestricted pledging had led. After extensive discussion, the Committee formulated a set of pledging rules, which, having the approval of all the fraternities, went into effect in October, 1930. Their successful operation up to the present writing has done much to give the fraternity and the prospective pledgee a better chance to become acquainted with each other than was possible under the former regime.

The Cooper Union has made rapid strides during the past few years in modernizing its curriculum. It is our earnest desire to aid this movement by encouraging those extra-curricula activities which are so essential to the development of the modern engineer.





Omega Delta Phi

FRATRES IN FACULTATE

KARL HAUPTMANN PROF. HENRY C. ENDERS
C. GEORGE KRUGER FRANCES P. CAREY

FRATRES IN COLLEGIO ALPHA

Alfred A. Anastasio	John F. Kraus
Louis Braida	Raymond J. Kunz
William C. Brass	Edward F. Lazar
Joseph Burns	Hunter A. Lund
George Alfred Crowther	Kenneth E. Lofgren
John E. DeMatteo	James J. Manning
C. Alfred DeVyver	Joseph Michal
Robert A. Dienes	Jeremiah A. Musilek
William E. DuPont	Karl A. Newgreen
August Dolle, Jr.	James W. Phillips
Robert F. Elliott	Marte Previti
Harold I. Emery	Joseph J. Slavin
Lambert Freericks	Fred C. Stein, Jr.
George J. Gaydos	John L. Sherry
Edward J. Guinee	George Tischer
Philip M. Hamlin	Frank J. Winter





Sigma Alpha Pi

Founded 1904

FRATRES IN FACULTATE

DR. ALBERT B. NEWMAN
WILLIAM E. BOSSERT
JAMES COULL
HENRY B. HOPE
PROF. WILLIAM J. PICKETT

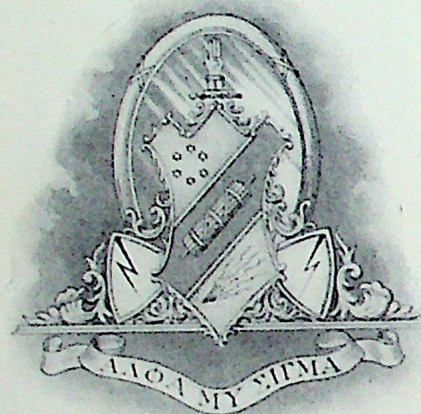
WERNER O. ENTENMANN
ABRAHAM J. B. FAIRBURN
HENRY J. OTTEN
PROF. NORMAN L. TOWLE
CARL H. YOUNG

CARLYLE W. MILLER

FRATRES IN COLLEGIO

George A. Abrahamsen
William J. Burns
James Constable
Willard T. Eddy
Louis O. Foernsler
Harold A. Grebe
Maurice W. Groves
Felix A. Inslerman
Kermit J. Kalna
Emil H. Keller

John W. Kinkel
Charles E. Luffman
Charles R. Meyer
Thomas H. Neely
Arthur E. Post
Walter J. Romlein
Edward Schoenfeld, Jr.
Kenneth A. H. Smith
Ernest Tonjes
Hugh C. Wilson



Alpha Mu Sigma

Founded 1914 at Copper Union

CHAPTERS

<i>Alpha</i>	Cooper Union
<i>Beta</i>	College of the City of New York
<i>Gamma</i>	Polytechnic Institute of Brooklyn
<i>Delta</i>	Massachusetts Institute of Technology
<i>Epsilon</i>	Columbia University
<i>Zeta</i>	New York University
<i>Eta</i>	Harvard University
<i>Theta</i>	Bellevue Medical College
<i>Iota</i>	Yale University
<i>Lambda</i>	University of Pennsylvania
<i>Mu</i>	University of Maryland
<i>Nu</i>	University of Virginia
<i>Omicron</i>	University of Southern California
<i>Xi</i>	Union College
<i>Pi</i>	Long Island University
<i>Tau</i>	Roanoke College
<i>Sigma</i>	Chicago Lewis Institute
<i>Kappa</i>	Boston University
<i>Alumni</i>	New York City
<i>Alumni</i>	Boston

FRATRE IN FACULTATE
Benjamin Levine

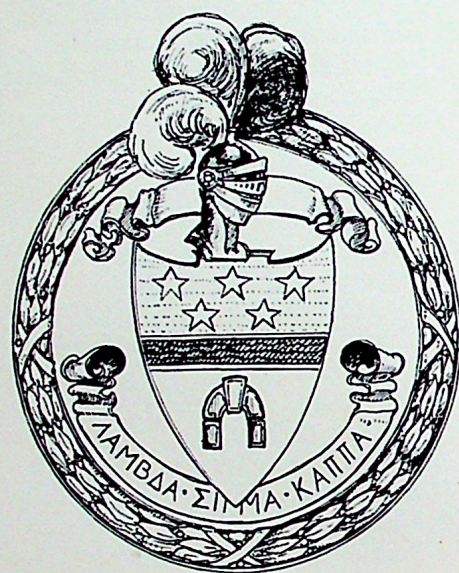
FRATRES IN COLLEGIO

James Cohen
Irwin Finklestein
A. Leon Fishbach
Oscar L. Fischer

Louis D. Goldfinger
Sam Scheps
William H. Wechter
Sigmund Weintraub

Irving Wenz





Lambda Sigma Kappa

FRATRES IN FACULTATE

Blanford A. Alger
Warren G. Findley

Harold W. Merritt
Herbert F. Roemmele

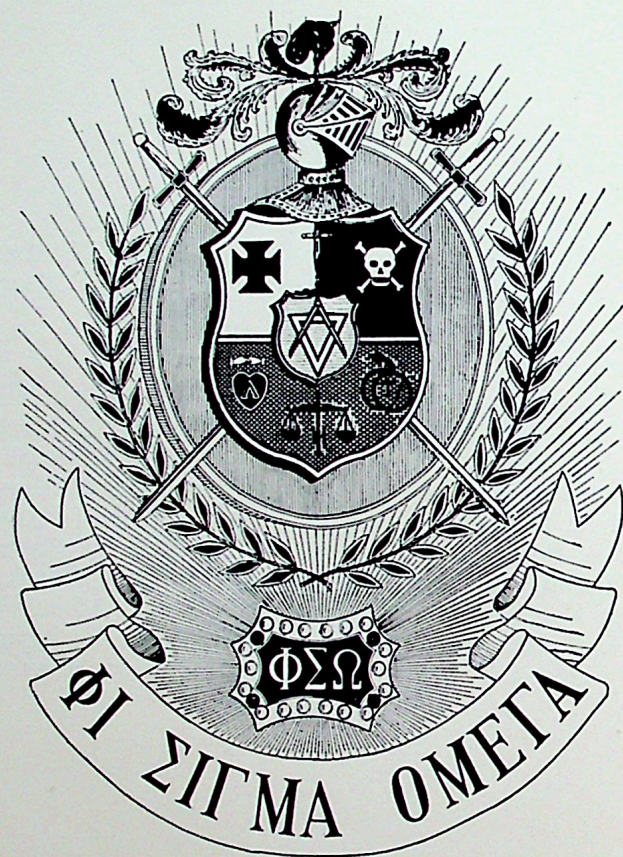
FRATRES IN COLLEGIO

Jack Baliff
Marcel J. P. Bogart
C. Roscoe Bonnemort
Emanuel A. Drago
Richard A. Ench
Edgar Hinton, Jr.
Theodore Kalisher
Henry L. Kaune, Jr.
John J. Lanigan

August B. Mundel
James J. Murphy
George C. Neuschaefer
William J. O'Donnell
Willis D. Peters
Gerard J. Plunkett
David Rabinow
Alexander Rapisarda
George Ratner

William A. Vopat





Phi Sigma Omega Fraternity

ALPHA CHAPTER

FRATRES IN FACULTATE

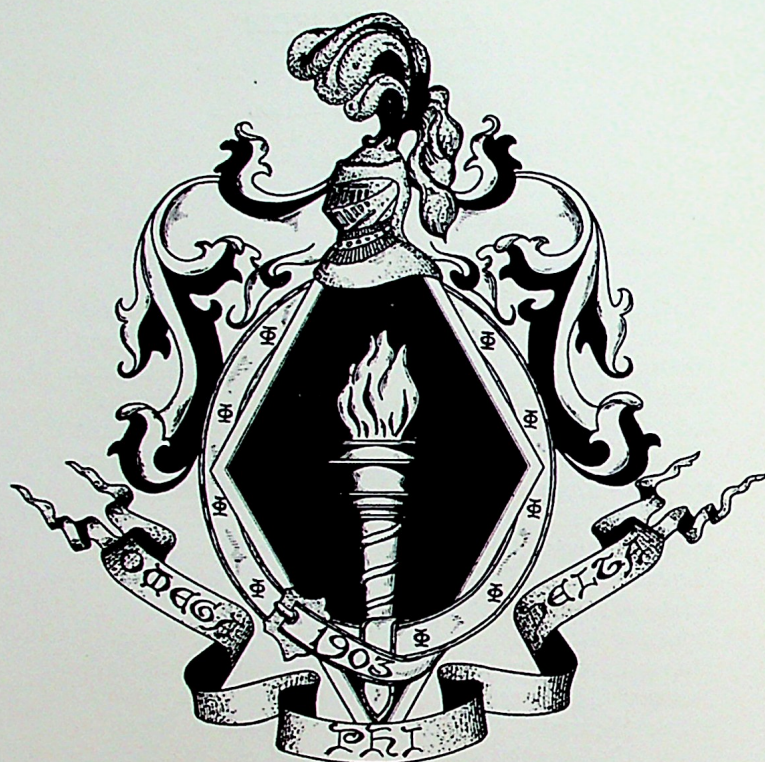
William T. Peterson

FRATRES IN COLLEGIO

Francis H. Alexander
William A. Anderson
Edward D. Badey
Walter C. Bersig
Robert Brady
Phillip F. Brueck
John Joseph Carroll
John T. Carroll
Vincent C. Cody
Vincent G. Cooke
Hector Cuttica
John Fleming
Marcel Goazempis
Louis W. Golombowsky
Erich Graber
Ernest C. Graber
Sterling Gustavson
Frank Hickey
Frank G. Hundley
Frank E. Hunter
Thomas F. Kearney
Arthur Kleinfelder

James S. Locke
Roy Lockwood
Ernest Lundie
Charles F. Matcke
Vincent S. Morano
George W. O'Brien
Joseph E. Owens
Joseph A. Pasquale
Ernando F. Perricelli
Stephen Perrone
Harold E. Prucha
Fred J. Seitz
Henry J. Sieb
Stanley T. Slezak
Anton E. Sparr
Eugene R. Spies
John Stark
Francis A. Stutz
Joseph W. Svoboda
Cesar A. Tolivar
Peter F. Wield
Anton J. Wille

Ralph W. Windrum



Omega Delta Phi

DELTA

Institute of Technology

FRATRES IN COLLEGIO

Eric Behn	Clifford J. Mily
Victor D. Behn	Norman B. Newcomb
Chester W. Bradshaw	Henry O. Nilsson
Casimir P. Ciesielski	George H. O'Sullivan
Howard S. Clark	Joseph Panebianco
Francis J. Costello	Howard H. Platts
Henry Dutor	Henry P. Schoenfisch
Milton L. Gill	John R. Sheridan
Herman Grissler	Hjalmar Steen
George A. Kauber	George H. Stumpff
Lester A. Kenworthy	William F. Tiedmann
Joseph W. Laughlin	Harry C. Townsend
James B. Lytle	Alfred W. Wichmann, Jr.



The Story in our Cable

(Continued from page 218)

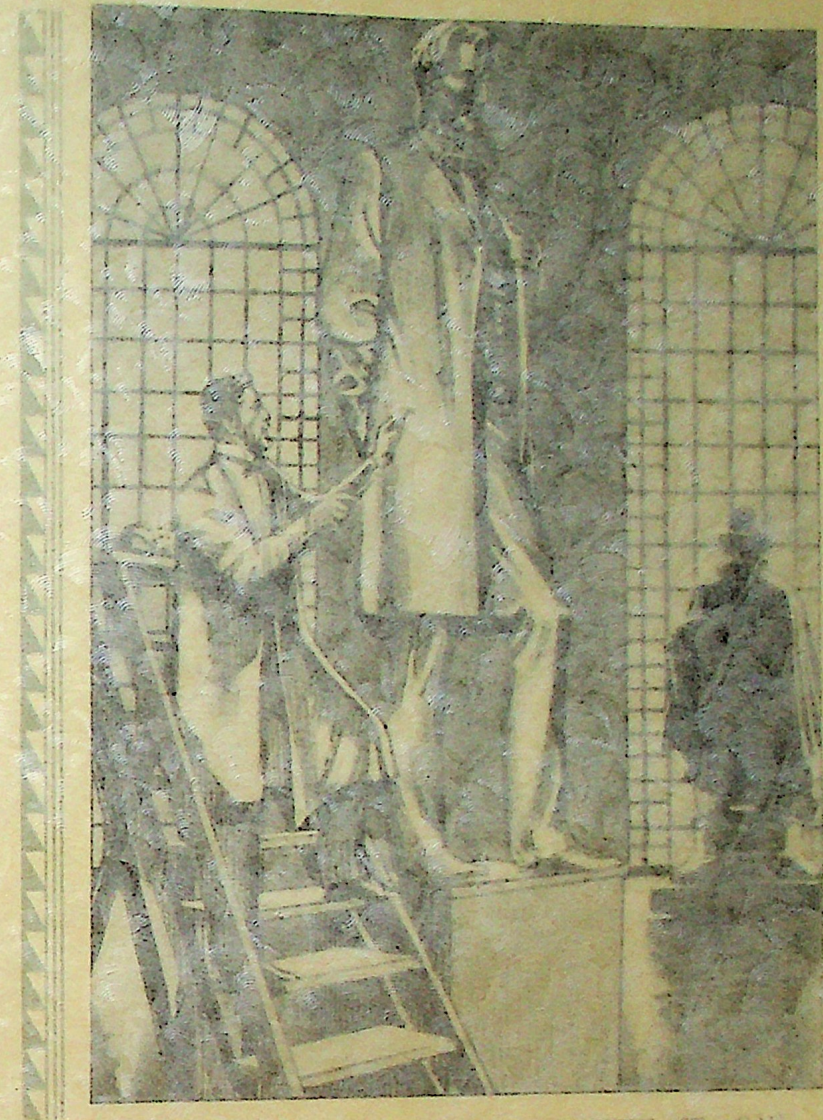
his companion thought that this modest experiment could be made to produce the nitrogen so badly needed, and after quite a time were successful in getting the apparatus into such shape as to produce nitric acid from the air in unlimited quantities. This picture shows the apparatus which was used by Mr. Lovejoy in his experiments. It has been developed from actual photographs obtained from those who knew Mr. Lovejoy in his eventful life. Such items are priceless, and it is only fitting that the kindness of Mr. R. C. Coffin, of the Alumni Federation of Cooper Union, be mentioned at this point for his most valuable assistance in obtaining this data.

There are other sides to life as well as engineering, and our graduates have not been lacking in this field either. Under the heading of "The Fraternities" division page we have one who has risen high in the ranks of our political life, Governor Morgan F. Larson, the present Governor of the State of New Jersey, and a graduate of the Class of '07.

Last, but not least, is the portrayal of Augustus St. Gaudens, sculptor of the first rank, as he worked upon his famous statue of Lincoln. This is "The Activities" division page. In the background is also seen another of his well-known works, the statue of "The Puritan"—surely every one has either seen or heard of these, not to mention St. Gaudens himself. This sculptor is one of us; a graduate of the earlier days of The Union. Is it any wonder that we pride ourselves for being in the same school which has turned out such famous personages? Is it not an inspiration to those who follow to strive for the goals these men have reached? These are not the only ones who have reached such levels. Our book is limited in the number we can bring forth, and it is hoped that some succeeding years will find this theme brought forth again to give those who have not been mentioned a place in our hearts and minds.

THE EDITOR.

Two Hundred Eighty-six



AUGUSTUS ST. GAUDENS sculptor of great note and well known by his statues of "Lincoln" and "The Puritan."

The ACTIVITIES

The Story in our Cable

(Continued from page 218)

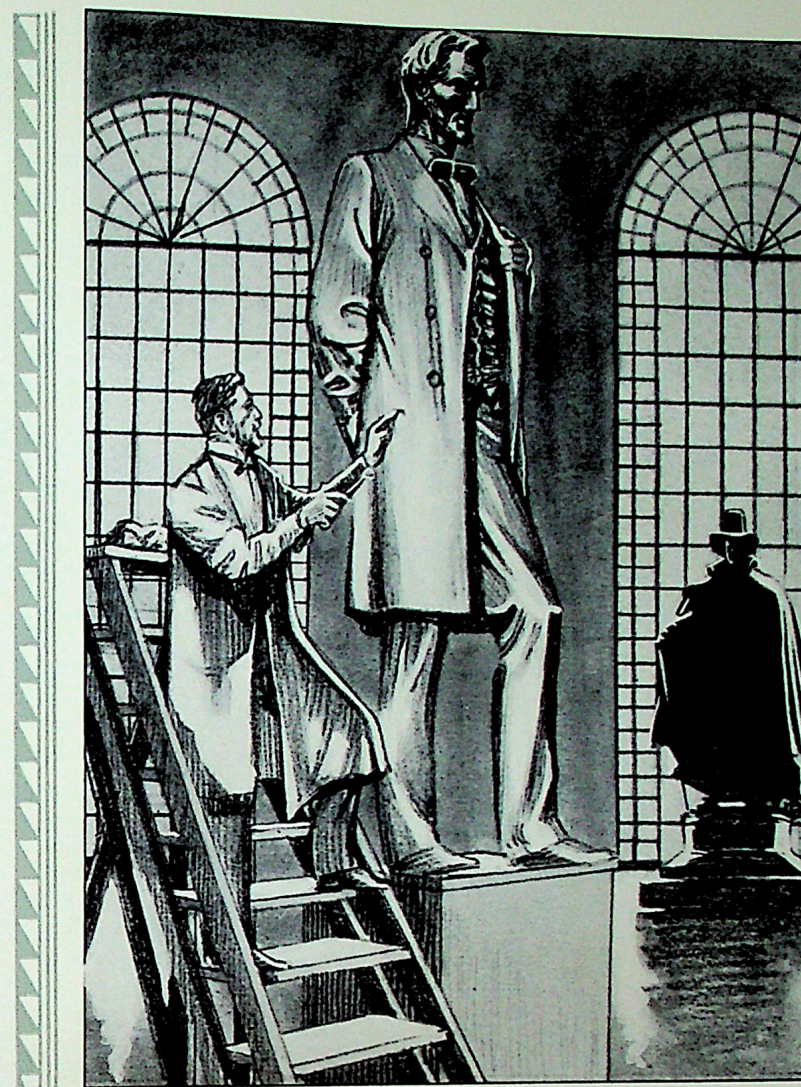
his companion thought that this modest experiment could be made to produce the nitrogen so badly needed, and after quite a time were successful in getting the apparatus into such shape as to produce nitric acid from the air in unlimited quantities. This picture shows the apparatus which was used by Mr. Lovejoy in his experiments. It has been developed from actual photographs obtained from those who knew Mr. Lovejoy in his eventful life. Such data are priceless, and it is only fitting that the kindness of Mr. R. G. Coffin, of the Alumni Federation of Cooper Union, be mentioned at this point for his most valuable assistance in obtaining this data.

There are other sides to life as well as engineering, and our graduates have not been lacking in this field either. Under the heading of "Fraternalities" division page we have one who has risen high in the ranks of political life, Governor Morgan F. Larson, the present Governor of the State of New Jersey, and a graduate of the Class of '07.

Last, but not least, is the portrayal of Augustus St. Gaudens, sculptor of the first rank, as he worked upon his famous statue of Lincoln. This is "The Activities" division page. In the background is also seen another of his well-known works, the statue of "The Puritan"—surely every one has either seen or heard of these, not to mention St. Gaudens himself. This sculptor is one of us; a graduate of the earlier days of The Union. Is it any wonder that we pride ourselves for being in the same school which has turned out such famous personages? Is it not an inspiration to those who follow to strive for the goals these men have reached? These are not the only ones who have reached such levels. Our book is limited in the number we can bring forth, and it is hoped that some succeeding years will find this theme brought forth again to give these who have not been mentioned a place in our hearts and minds.

THE EDITOR.

Two Hundred Years



AUGUSTUS ST. GAUDENS, sculptor of great note and well known by his statues of "Lincoln" and "The Puritan."

The ACTIVITIES

Annual Entertainment and Dance

Science and Art Councils

Brooklyn Elk's Club

March 28, 1931

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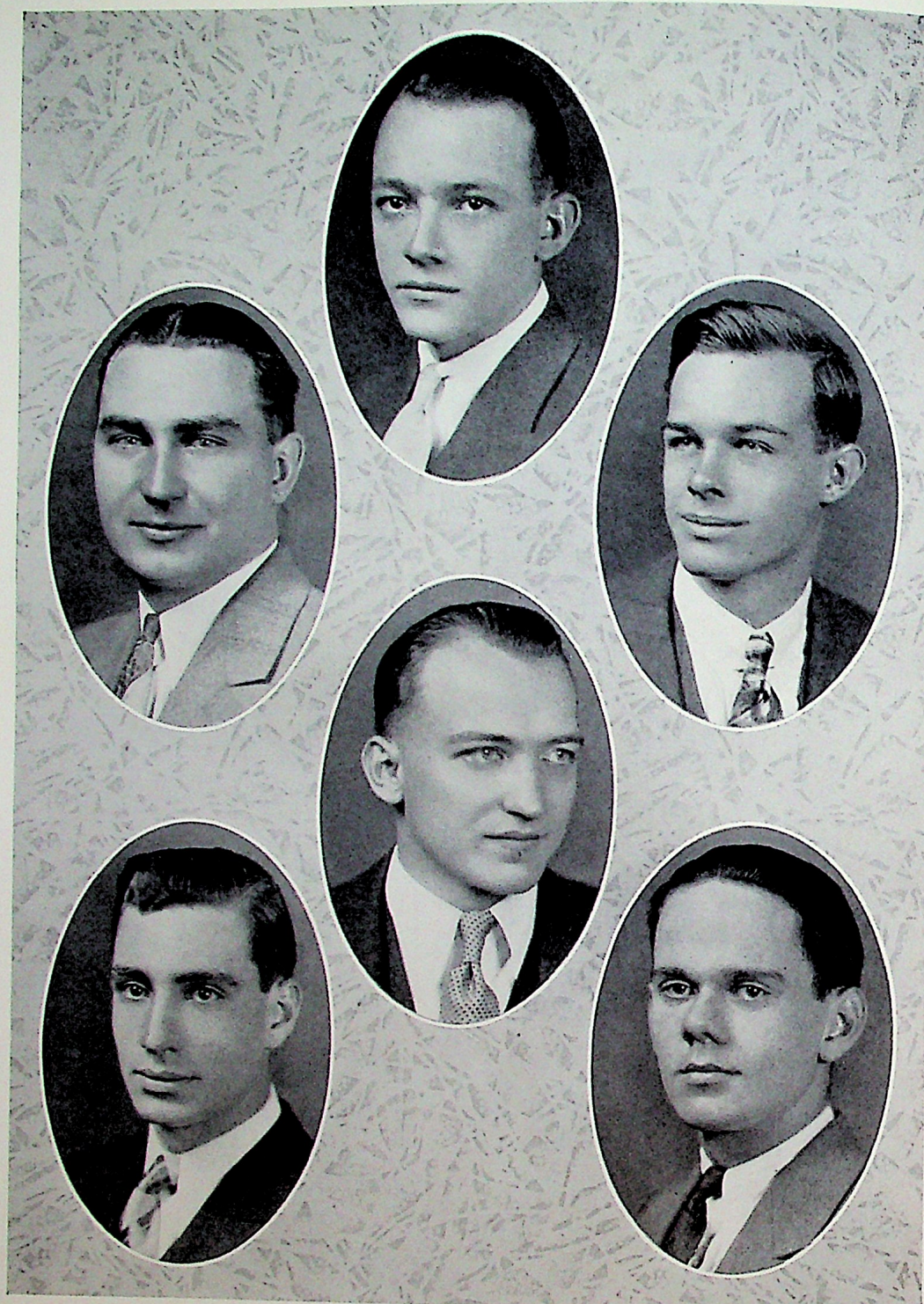
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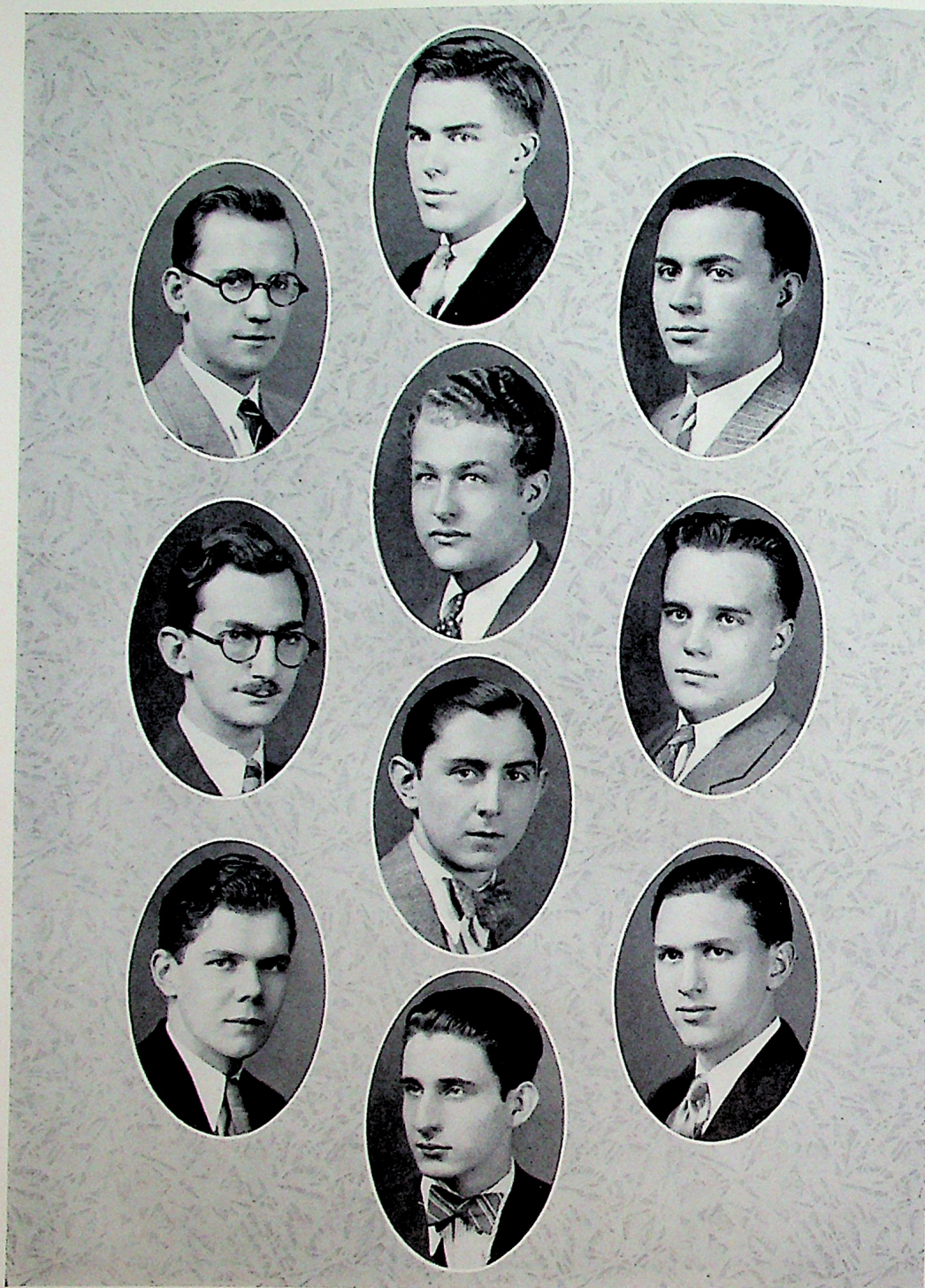
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The Pioneer

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Junior Promenade

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Two Hundred Ninety-seven



Theatre Party and Dinner

GENERAL SCIENCE 1933

March 7, 1931

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CHEMICAL ENGINEERING 1932

April 11, 1931

"THE NEW YORKERS" and PHOENIX RESTAURANT

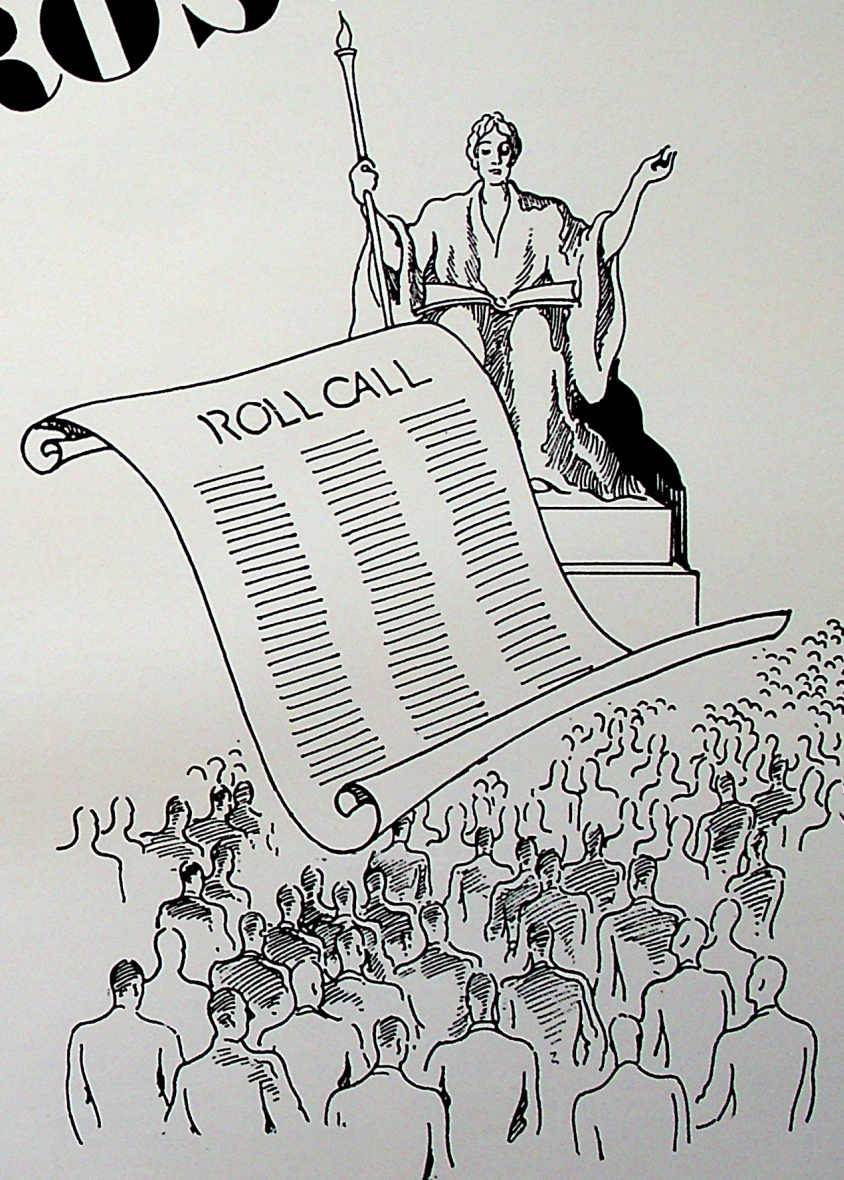
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Two Hundred Ninety-eight



ROSTER



CHEMICAL ENGINEERING, 1931

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Bittrich, G.	64 Vermilyea Ave., N. Y. C.	Kunz, R. J. F.	911 19th St., Union City, N. J.
Bulos, N.	1006 Broadway, Brooklyn, N. Y.	Manning, J. J.	957 E. 32nd St., Brooklyn, N. Y.
Cantor, G.	1703 St. John's Pl., Brooklyn, N. Y.	Margolis, M.	1675 Lincoln Place, Brooklyn, N. Y.
Cohen, J.	27 Ditmars St., Brooklyn, N. Y.	Mehnert, S. E.	42 E. Forest Ave., W. Englewood, N. J.
Cornell, F. M.	1120 42nd St., Brooklyn, N. Y.	Prista, A. R.	41 South Ave., Cranford, N. J.
Critchley, E.	Park Ave., Allendale, N. J.	Roeben, F. J.	105 Charles St., N. Y. C.
Egan, W. T.	31 High St., Jersey City, N. J.	Schwarzwaelder, O.	510 E. 79th St., N. Y. C.
Ewing, P. B.	120 E. 1st Ave., Roselle, N. J.	Segui, S. F.	4715 48th St., Woodside, L. I.
Finkelstein, I.	200 Bay 32nd St., Brooklyn, N. Y.	Sherman, L.	524 Bristol St., Brooklyn, N. Y.
Kapeloohn, L.	85 Miller Ave., Brooklyn, N. Y.		

CHEMICAL ENGINEERING, 1932

De Vyver, C. A.	185 E. Cliff St., Somerville, N. J.	Mrowka, J.	292 Metropolitan Ave., Brooklyn, N. Y.
Duffy, H. T.	78-35 Lotus Ave., Glendale, L. I.	Pillartz, W.	109 E. 121st St., N. Y. C.
Fishbach, A. Leon	1173 44th St., Brooklyn, N. Y.	Previti, M.	569 9th Ave., N. Y. C.
Landau, M.	145 Audubon Ave., N. Y. C.	Radinsky, I. J.	509 Belmont Ave., Brooklyn, N. Y.
Loughlin, J. E.	97 Brown Ave., Prospect Park, Paterson, N. J.		

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De Coste, J. B.	30 Roosevelt Ave., Jersey City, N. J.	Morrello, C. J.	303 E. 46th St., N. Y. C.
Heinlein, E.	Stewart Ave., Garden City, N. Y.	Pollock, S.	990 E. 173rd St., N. Y. C.
Hibner, M.	200 2nd St., Jersey City, N. J.	Theuerer, H. C.	597 10th Ave., N. Y. C.
Kayser, E.	1673 Gates Ave., Brooklyn, N. Y.	Weiner, J.	835 Fox St., Bronx, N. Y.
Korany, J. A.	456 Fairmount Ave., Newark, N. J.	Wichmann, A. W.	53 DeKalb Ave., White Plains, N. Y.
McGill, J. P.	199 Decker Ave., Port Richmond, S. I.		

CHEMICAL ENGINEERING, 1934

Anthony, R. S.	54 Morton St., N. Y. C.	Mark, E. W.	150 Beach St., Stapleton, N. Y.
Borgis, J. G.	715 Mack St., Elizabeth, N. J.	Mautner, H. R.	234 E. 33rd St., N. Y. C.
Brenner, A.	615 Grier Ave., Elizabeth, N. J.	Moran, R. F.	574 Monroe St., Brooklyn, N. Y.
Bresnowitz, J. N.	41 Columbus Ave., Garfield, N. J.	Newgreen, K. A.	21 W. High St., Somerville, N. J.
Carey, J. W.	348 S. Orange Ave., Newark, N. J.	Olwig, F. C.	143 Westervelt Ave., S. I., N. Y.
Danieli, G. O.	142 Sylvan Ave., Newark, N. J.	Ploetz, A. O.	3421 99th St., Corona, L. I.
Dinkfeld, A. M.	285 Maryland Ave., Paterson, N. J.	Pollert, W. J.	408 E. 5th St., N. Y. C.
Donato, J.	379 Van Brunt St., Brooklyn, N. Y.	Rasmusson, M. H.	642 40th St., Brooklyn, N. Y.
Gangi, F.	458 Paulison Ave., Passaic, N. J.	Ratner, G. B.	210 W. 71st St., N. Y. C.
Gerstel, S. C.	952 Kelly St., Bronx, N. Y.	Roman, A.	1418 President St., Brooklyn, N. Y.
Gordon, P. L.	1838 Vyse Ave., N. Y. C.	Sansevero, V. J.	109 Van Pelt Ave., S. I., N. Y.
Haffke, W.	271 57th St., Brooklyn, N. Y.	Scheiner, M.	8769-20 Ave., Brooklyn, N. Y.
Hagen, G.	7905 3rd Ave., Brooklyn, N. Y.	Schiff, S.	220 E. Broadway, N. Y. C.
Haratonik, W.	32-52 30th St., L. I. City	Schneider, A.	1831 Sterling Pl., Brooklyn, N. Y.
Holtzman, H.	1090 E. Parkway, Brooklyn, N. Y.	Singer, B.	841 Longfellow Ave., N. Y. C.
Huppert, G.	1374 Dahill Rd., Brooklyn, N. Y.	Smith, S. L.	417 Grand St., N. Y. C.
Levine, N. H.	3638 215th St., Bayside, L. I.	Steen, H.	19 West 76th St., N. Y. C.

CHEMICAL ENGINEERING, 1935

Albert, H. I.	2164 72nd St., Brooklyn, N. Y.	Greenspan, S.	13 Suffolk St., N. Y. C.
Bernstein, S.	203 E. 174th St., N. Y. C.	Heyman, S.	166 E. 93d St., Brooklyn, N. Y.
Bunovich, R.	74 Howe Ave., Passaic, N. J.	Josite, W.	8 Manhattan Ave., Jersey City, N. J.
Conrad, H.	31-77 32nd St., Astoria, L. I.	Kaliton, S. M.	1801 University Ave., Bronx, N. Y.
Drimer, D.	611 E. 179th St., Bronx, N. Y.	Kashman, M. J.	358 S. 3rd St., Brooklyn, N. Y.
Edman, W. W.	813 71st St., Brooklyn, N. Y.	Kay, B.	1318 Stebbins Ave., Bronx, N. Y.
Gilbarg, H.	285 Quincy St., Brooklyn, N. Y.	Kelly, E. A.	137 Front St., Hempstead, L. I.
Ginsberg, I.	321 Crown St., Brooklyn, N. Y.	Kirschen, M.	844 Gates Ave., Brooklyn, N. Y.
Greenberg, J.	693 Flushing Ave., Brooklyn, N. Y.	Klotzky, B.	1460 Wilkins Ave., Bronx, N. Y.

Three Hundred



Kosinsky, J.	319 6th St., Brooklyn, N. Y.	Rosen, G. A.	354 41st St., Brooklyn, N. Y.
Kubel, W. F.	501 New York Ave., Elizabeth, N. J.	Schnettler, F.	28 Cook St., Haledon, N. J.
Laucius J. F.	163 Fulton St., Elizabeth, N. J.	Seiff, H. B.	158 Ave. O, Brooklyn, N. Y.
Levine, B.	614 E. 136th St., N. Y. C.	Silberman, A. A.	106 Bainbridge St., Brooklyn, N. Y.
Levinson, S. E.	2216 East 7th St., Bklyn., N. Y.	Simons, H.	1408 Franklin Ave., N. Y. C.
Lovas, J. J.	414 Stanhope St., Brooklyn, N. Y.	Spiegelman, A.	64 Mamaroneck Ave., Mamaroneck, N. Y.
Marcus, H.	2116 72nd St., Brooklyn, N. Y.	Stokien, E. J.	189-29 117th Rd., St. Albans, L. I.
Martinez, J.	941 Hoe Ave., N. Y. C.	Tosh, A. K.	c/o Pingry School, Elizabeth, N. J.
Morace, A. W.	112 2nd Pl., Brooklyn, N. Y.	Towsley, L. M.	1250 Bay Ridge Pky., Bklyn., N. Y.
Olsen, K. M.	4806 5th Ave., Brooklyn, N. Y.	Weintraub, W.	219 Pulaski St., Brooklyn, N. Y.
Penney, W. F.	268 Palisade Ave., Union City, N. J.	Welling, M.	496 E. 95th St., Brooklyn, N. Y.
Plunkett, G. J.	432 73rd St., Brooklyn, N. Y.		

GENERAL SCIENCE 1931

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Crowther, G. A.	34-48 73rd St., Jackson Hts., L. I.	Muhlsteff, R. P.	100 W. 105th St., N. Y. C.
Dimatteo, J. E.	124 Broadway, Jersey City, N. J.	Newman, M.	601 Marcy Ave., Brooklyn, N. Y.
Elliott, R. F.	92 Jewett Ave., Jersey City, N. J.	Perrone, S. W.	37-60 83rd St., Jackson Hts., N. Y.
Heiferz, S.	335 Grand St., Brooklyn, N. Y.	Pinster, E. P.	307 Crestview Pl., Teaneck, N. J.
Hundley, F. G.	35-55 80th St., Jackson Hts., N. Y.	Pillartz, W. E.	1040 Fox St., Bronx, N. Y.
Kemmer, A. J.	9314 112th St., Richmond Hill, L. I.	Ruskin, M.	1835 E. 29th St., Brooklyn, N. Y.
Lauer, R. J.	2144 45th Ave., L. I. C.	Sieb, H. J.	175 N. Broadway, Yonkers, N. Y.
Mattke, C. F.	925 Steinway Ave., Astoria, L. I.		

Civil Engineering

Banton, F. A. J.	37-56 74th St., Jackson Hts., L. I.	Newcomb, N. B.	425 E. 7th St., Plainfield, N. J.
Bersig, W. C.	1343 E. 29th St., Brooklyn, N. Y.	Newman, A.	41 E. 7th St., N. Y. C.
Dermody, J. M.	322 Second Ave., N. Y. C.	Pautzke, H.	140-34 182nd St., Springfield, L. I.
Dienes, R. A.	7618 88th Ave., Woodhaven, L. I.	Polli, T.	56 W. 106th St., N. Y. C.
Di Giacomo, R.	31 Essex St., Paterson, N. J.	Rega, M.	1948 52nd St., Brooklyn, N. Y.
Eck, F.	1925 Andrews Ave., Bronx, N. Y.	Roth, M.	1060 Fox St., Bronx, N. Y.
Emery, H. I.	1938 E. 13th St., Brooklyn, N. Y.	Rudder, I. A.	1633 W. 10th St., Brooklyn, N. Y.
Fitzgerald, G. M.	3315 Seymour Ave., N. Y. C.	Ruocco, P. C.	355 Gray St., Orange, N. J.
Fleming, J. C.	161 W. 103d St., N. Y. C.	Schmehl, C.	24 Riverside Ave., Lyndhurst, N. J.
Gibson, M. A.	302 W. 154th St., N. Y. C.	Schulman, L.	2057 67th St., Brooklyn, N. Y.
Golombowsky, L. W.	3775 63d St., Woodside, L. I.	Tiedemann, W. F.	263 Wilson Ave., Brooklyn, N. Y.
Grossman, L.	200 E. 102nd St., N. Y. C.	Wallace, G.	533 W. 156th St., N. Y. C.
Hamlin, P. M.	157 Wood St., Rutherford, N. J.	Wanderer, H. G.	239 S. Washington Ave., Bergenfield, N. J.
Hickey, J. F.	1068 E. 2nd St., Brooklyn, N. Y.	Webb, J. F.	175 Pinchurst Ave., N. Y. C.
Jaeger, H. F.	105 Dewey St., Newark, N. J.	Wohl, Jack S.	55A Lorimer St., Brooklyn, N. Y.
Klotz, G. E.	43 Orchard St., Ridgefield Pk., N. J.	Zuleeg, C.	1072 Lexington Ave., N. Y. C.
Langbein, W. B.	2385 Grand Concourse, N. Y. C.		
Merrill, C. C.	2369 25th St., Astoria, L. I.		

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Cohen, P. H.	44 E. 52nd St., Brooklyn, N. Y.	Lasciak, C.	279 Hudson St., N. Y. C.
Crane, H. H.	417 Grand St., N. Y. C.	Leary, R. J.	16 Barrow St., N. Y. C.
Gaynor, H. F.	316 W. 117th St., N. Y. C.	Luffman, C. E.	10 4th St., South Orange, N. J.
Gerling, E. A.	515 W. 134th St., N. Y. C.	Mangels, H. E.	109-70 200th St., Hollis, N. Y.
Gillim, W. G.	135 Madison Ave., Elizabeth, N. J.	Martorano, Philip A.	3317 99th St., Corona, N. Y.
Gluck, A. P.	587 E. 140th St., N. Y. C.	Mattson, C.	320 6th St., Brooklyn, N. Y.
Greenspan, M.	155 Myrtle Ave., Jersey City, N. J.	Melomo, A.	1421 67th St., Brooklyn, N. Y.
Hertzlich, H.	1713 72nd St., Brooklyn, N. Y.	Plaskowitz, H.	189 Ross St., Brooklyn, N. Y.
Hilkene, H. P.	334 Orange Rd., Montclair, N. J.	Post, A. E., Jr.	11 E. 7th St., N. Y. C.
Holzer, A. W.	546 Devon St., Arlington, N. J.	Reich, O.	31 Cannon St., N. Y. C.
Hornby, C. R.	320 Fairmount Ave., Jersey City, N. J.	Schmidt, E. H.	1112 Clay Ave., Bronx, N. Y.
Hotaling, R.	1112 72nd St., Brooklyn, N. Y.	Smith, T. B.	1780 W. 9th St., Brooklyn, N. Y.
Jackman, J. T., Jr.	425 Prospect St., Nutley, N. J.	Solov, A.	1721 Bathgate Ave., Bronx, N. Y.
Kearney, J. G.	2877 Roberts Ave., N. Y. C.	Svuger, F.	83-17 63rd Ave., Forest Hills, West, L. I.
Kielblock, W.	7464-64 Lane, Glendale, L. I.	Zieve, W. A.	45 Bay 23rd St., Brooklyn, N. Y.
Lachman, L. A.	147-20 84th Ave., Jamaica, L. I.		

Three Hundred One



Civil Engineering

Baltega, A. 340 W. 26th St., N. Y. C.
 Bonnema, L. A. 18 Hobart Pl., Garfield, N. J.
 Brass, W. C. 43-14 21st Ave., L. I. C.
 Burke, R. E. 70 Quentin Rd., Brooklyn, N. Y.
 Cody, V. C. 66 Hope Ave., Staten Island, N. Y.
 Cousins, C. M. 118-40 Metropolitan Ave., Kew Gardens, L. I.
 Disney, H. V. 25 Gifford Ave., Jersey City, N. J.
 Dixon, W. W. 80 Brighton Ave., Bloomfield, N. J.
 Fabry, W. C. 28 Peck Ave., Newark, N. J.
 Gigstad, Knut 373 42nd St., Brooklyn, N. Y.
 Golombowsky, J. P. 4320 55th St., Woodside, N. Y.
 Gomez, J. R. 74 Grant St., Cliffside, N. J.
 Gragnola, J. R. 3745 Willett Ave., Bronx, N. Y.
 Grossman, Isidore S. 200 E. 102nd St., N. Y. C.
 Guilmette, R. E. 552 Franklin St., Elizabeth, N. J.
 Gummerson, R. 373 42nd St., Brooklyn, N. Y.
 Jellinek, E. C. 140 Clinton Pl., Newark, N. J.
 Johnson, E. U. 2229 Strang Ave., Bronx, N. Y.

Kisbany, G. H. 1319 E. Boulevard, West New York, N. J.
 Kosow, H. 376 Keap St., Brooklyn, N. Y.
 McCoffrey, B. 631 Ocean Ave., Brooklyn, N. Y.
 Macri, J. W. 43 Andrew St., Bayonne, N. J.
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 Thorsen, O. A. C. 5716 4th Ave., Brooklyn, N. Y.
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 Tweedy, E. S. 10525 88th St., Ozone Park, N. Y.
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 Wilson, H. C. 790 Riverside Drive, N. Y. C.
 Zuckerman, A. 1426 W. 4th St., Brooklyn, N. Y.

GENERAL SCIENCE, 1933

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 Coloma, B. S. 501 W. 143rd St., N. Y. C.

Colvin, C. D. 15 Van Sicklen Ave., Bklyn., N. Y.
 Cooke, V. G. 11 Palm Court, Brooklyn, N. Y.
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 Denner, N. 1465 Hoe Ave., N. Y. C.
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 Figelman, B. 527 Putnam Ave., Brooklyn, N. Y.
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 Gerringer, S. 160 W. Kingsbridge Rd., Bronx, N. Y.
 Johnson, D. R. 106 Campus Rd., S. I., N. Y.
 Magliato, P. J. 1807 Bussing Ave., N. Y. C.
 Sapiro, H. 12 E. Clarke Pl., N. Y. C.
 Schapiro, P. 346 S. 3rd St., Brooklyn, N. Y.
 Schneider, C. 5120 19th Ave., Brooklyn, N. Y.
 Stafford, F. 110 E. 120th St., N. Y. C.
 Wartelsky, J. 732 E. 152nd St., Bronx, N. Y.

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 Kacmarcyk, F. M. 35-45 Crescent St., L. I. C.
 Korn, W. 256 Fulton Ave., Jersey City, N. J.
 Kuenzler, E. J. 319 W. 18th St., N. Y. C.
 Kuznetsoff, Isidore 596 E. 51st St., Brooklyn, N. Y.
 Levy, H. 18 Jacob St., Newark, N. J.
 Locke, J. S. 106 W. 92nd St., N. Y. C.

Luceri, A. S. 1820 Lurting Ave., Bronx, N. Y.
 Mayer, S. S. 101 W. 41st St., N. Y. C.
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 Melick, T. E. Belle Mead, N. J.
 Mendelson, E. 3507 14th Ave., Brooklyn, N. Y.
 Mickiewicz, W. A. 120-27 172nd St., St. Albans, L. I.
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 Owens, J. E. 474 State St., Brooklyn, N. Y.
 Perricelli, E. F. 873 E. 181st St., N. Y. C.
 Piadra, R. 3100 Broadway, N. Y. C.
 Prime, G. H. 9107 216th St., Queens Village, L. I.
 Rosenholtz, M. 1555 W. 11th St., Bklyn, N. Y.
 Scheps, S. 1691 Selwyn Ave., Bronx, N. Y.
 Sigman, J. 49 Parkville Ave., Brooklyn, N. Y.
 Wechter, W. H. 59 E. 100th St., N. Y. C.



Section III

Graber, E. C. 42-12 Ditmars Blvd., Astoria, L. I.
 Heckman, H. W. Atlantic View Ave., Seaford, L. I.
 Idashkin, M. 105-20 75th St., Ozone Park, L. I.
 Lechterman, E. 119-37 Metropolitan Ave., Kew Gardens, L. I.
 Quinn, I. 6009 19th Ave., Brooklyn, N. Y.
 Rohlich, G. A. 812 Buchman Ave., Ridgewood, L. I.
 Robinson, E. 1489 Coney Island Ave., Bklyn, N. Y.
 Sachse, W. J. 37-16 124th St., Richmond Hill, N. Y.
 Sanders, G. K. 570 Jamaica Ave., Bklyn., N. Y.
 Sandor, R. 38 McLean St., Passaic, N. J.
 Scherr, M. 6959 74th St., Middle Village, L. I.
 Schiller, S. 2150 73d St., Brooklyn, N. Y.
 Schimpff, M. C. 31 Chester Ave., Stewart Manor, L. I.
 Seidlitz, H. M. 1393 Lexington Ave., N. Y. C.

Sells, W. 49 Hinsdale St., Brooklyn, N. Y.
 Sherry, J. L. 136 Grant Ave., Jersey City, N. J.
 Shingler, H. A. 8517 89th St., Woodhaven, L. I.
 Solotoroff, B. 1233 Evergreen Ave., Bronx, N. Y.
 Spahn, C. F. 637 E. 175th St., Bronx, N. Y.
 Stanley, J. J. 622 Prospect Ave., Bronx, N. Y.
 Struyk, P. A. 1001 E. 25th St., Paterson, N. J.
 Svoboda, J. W. 74-39 44th Ave., Elmhurst, L. I.
 Toner, Jr. L. V. 345 W. Market St., Newark, N. J.
 Vaughan, H. E. 195 Roosevelt Ave., Valley Stream, N. Y.
 Watson, E. 364 83rd St., Brooklyn, N. Y.
 Wedeman, J. D. 4306 45th St., L. I. C.
 Weissman, M. 393 Miller Ave., Brooklyn, N. Y.

GENERAL SCIENCE, 1934

Section I

Adams, H. 354 E. Mosholu Pkwy., S., Bronx, N. Y.
 Baig, E. H. 10 Jefferson Pl., Mt. Vernon, N. Y.
 Bardes, Jr., G. 271 Parkside Ave., Brooklyn, N. Y.
 Berglund, F. R. 2888 Dudley Ave., N. Y. C.
 Birgy, J. 449 W. 40th St., N. Y. C.
 Blankstein, A. 2015 Clinton Ave., Bronx, N. Y.
 Blumberg, C. 342 W. 24th St., N. Y. C.
 Bocher, J. M. 2319 E. 21st St., Bklyn., N. Y.
 Bollman, L. W. 22-56 48th St., L. I. C.
 Brenner, F. 10123 80th St., Woodhaven, L. I.
 Calmel, L. R. 258 W. 55th St., N. Y. C.
 Christensen, J. 65 Orient Ave., Jersey City, N. J.

Cohen, R. 958 E. 10th St., Brooklyn, N. Y.
 Cohen, S. 1238 Wheeler Ave., N. Y. C.
 Crosby, J. 25 E. 177th St., N. Y. C.
 Dardick, D. 2504 Bronx Park East, N. Y. C.
 Demaio, J. J. 1109 Hancock St., Brooklyn, N. Y.
 Di Prima, J. 544 Hart St., Brooklyn, N. Y.
 Driscoll, T. 217 Benziger Ave., New Brighton, S. I.
 Dubensky, B. 285 Division Ave., Brooklyn, N. Y.
 Dvorak, G. 4524 Park Ave., Bronx, N. Y.
 Dvorak, R. C. 67-16 50th Ave., Winfield, L. I.
 Edelstein, A. 610 Oak Terrace, N. Y. C.
 Jordan, A. 258 Broadway, Newark, N. J.

Section II

Alexander, F. H. 119-21 Metropolitan Ave., Kew Gardens, L. I.
 Branfuhr, Jr., H. 278 E. 239th St., N. Y. C.
 Fitzgerald, J. J. 1764 73d St., Brooklyn, N. Y.
 Friedman, J. 226 High St., Bklyn., N. Y.
 Fromm, A. 1312 Clay Ave., Bronx, N. Y.
 Gamache, G. F. 3242 Decatur Ave., Bronx, N. Y.
 Goldberg, S. 482 Riverdale Ave., Brooklyn, N. Y.
 Gould, M. 1604 St. Johns Pl., Brooklyn, N. Y.
 Greenhaus, L. C. 1080 Intervale Ave., N. Y. C.
 Halbreich, H. 260 Osborn St., Brooklyn, N. Y.
 Hally, E. F. 66 Sherman St., Brooklyn, N. Y.
 Hannon, John B. 654 74th St., Brooklyn, N. Y.
 Hess, J. 240 Irving Ave., Brooklyn, N. Y.
 Horbund, I. 244 Neptune Ave., Brooklyn, N. Y.

Ihlenburg, H. 183 Etna St., Brooklyn, N. Y.
 Jahoda, F. W. 22-75 19th St., Astoria, L. I.
 Kleinfelder, W. C. 169 Fingerboard Rd., Rosebank, S. I.
 Knox, V. E. 1172 Stratford Ave., Bronx, N. Y.
 Lacks, Israel 225 Utica Ave., Brooklyn, N. Y.
 La Forte, M. J. 814 Ave. V, Brooklyn, N. Y.
 Lehmann, P. C. 723 Willow Ave., Hoboken, N. J.
 Levine, J. C. 1512 Eastern Pkwy., Bklyn, N. Y.
 Lowey, L. L. 97-10 25th Ave., E. Elmhurst, N. Y.
 Luna, A. W. 1892 Andrews Ave., Bronx, N. Y.
 Milner, J. H., Jr. 31-52 34th St., Long Island City
 Stewart, J. 57 Union St., Jersey City, N. J.
 Wallace, N. 1375 Grand Concourse, Bronx, N. Y.
 Wechsler, A. A. 389 Monroe St., Brooklyn, N. Y.

Section III

Bruckenthal, M. 1361 43d St., Brooklyn, N. Y.
 Gillick, S. 195 Wash. St., Jersey City, N. J.
 Malinowski, A. J. 249 E. 36th St., N. Y. C.
 Mazzucca, J. 398 E. 152nd St., Bronx, N. Y.
 McKeith, P. 92-19 102nd St., Richmond Hill, N. Y.
 O'Brien, J. 41-51 Bowne Ave., Flushing, L. I.
 Patlove, M. 711 Putnam Ave., Brooklyn, N. Y.
 Peters, G. H. 280 N. Columbus Ave., Freeport, L. I.
 Petersen, J. H. 342 Eldert St., Brooklyn, N. Y.
 Phelan, J. 161 S. Lexington Ave., Union City, N. J.
 Pleasants, B. 311 Palisade Ave., Union City, N. J.

Ramer, N. G. 511 W. 170th St., N. Y. C.
 Rampino, M. A. 288 E. 152nd St., N. Y. C.
 Renstrom, R. 12 Lincoln Pl., Brooklyn, N. Y.
 Rowland, W. 1115 Madison Ave., N. Y. C.
 Sandargo, W. 124 Cherry St., N. Y. C.
 Schick, H. L. 234 Cornelia St., Brooklyn, N. Y.
 Schneider, Henry 10740 105th St., Ozone Park
 Sideri, Fred 335 E. 55th St., N. Y. C.
 Silverman, Sol 610 Williams Ave., Bklyn., N. Y.
 Simons, W. 12 Bacot St., Jersey City, N. J.
 Skolnick, S. 604 Beech Terrace, Bronx, N. Y.



Smith, F. R. 108 Perry Ave., Port Chester, N. Y.
Spanier, E. 155 Ross St., Brooklyn, N. Y.
Stubler, A. J. 454 43rd St., Brooklyn, N. Y.

Waag, C. 2154 Crescent St., Astoria, L. I.
Weber, A. 1865 62nd St., Brooklyn, N. Y.
Zawadowicz, S. J. 187 Wash. St., Jersey City, N. J.

GENERAL SCIENCE, 1935

Section I

Agatstein, J. 76 E. First St., N. Y. C.
Arara, C. A. 1137 71st St., Brooklyn, N. Y.
Arth, P. F. 1922 Gates Ave., Brooklyn, N. Y.
Blau, L. 2366 27th St., Astoria, L. I.
Blidensol, J. B. J. 5602 8th Ave., Brooklyn, N. Y.
Borrell, R. 25-47 97th St., E. Elmhurst, L. I.
Branigan, J. P. 443 E. 186th St., N. Y. C.
Brenner, H. 10 N. 8th Ave., Mt. Vernon, N. Y.
Brushansky, A. 565 Saratoga Ave., Brooklyn, N. Y.
Cazfapietra, V. G. 505 Bainbridge St., Bklyn, N. Y.
Capes, L. G. 196 St. John's Ave., Ft. Wadsworth, S. I.
Cassell, A. 720 50th St., Brooklyn, N. Y.
Cherin, R. 2823 Hubbard St., Brooklyn, N. Y.
Cohen, S. 1789 Bathgate Ave., N. Y. C.
Cohen, S. 78 Belmont Ave., Brooklyn, N. Y.
Couse, J. C. 663 Virgil Ave., Ridgefield, N. J.
Cupaivolo, P. A. 343 E. 121st St., N. Y. C.
Curtis, Jr., F. 8561 102nd St., Richmond Hill, L. I.
DiPrima, A. 544 Hart St., Brooklyn, N. Y.
Divan, W. J. 224 Senator St., Brooklyn, N. Y.

Duffy, C. 555 Ovington Ave., Brooklyn, N. Y.
Duncan, J. L. 37-57 80th St., Jackson Hts., N. Y.
Ehrlicht, W. 91 Cook St., Brooklyn, N. Y.
Eitelberg, S. 104 Heyward St., Brooklyn, N. Y.
Fallon, T. L. 21-50 29th St., Astoria, L. I.
Famoso, J. 544 61st St., Brooklyn, N. Y.
Farkas, H. 203 Ave. T., Brooklyn, N. Y.
Feldman, R. 2279 E. 22nd St., Brooklyn, N. Y.
Fexas, M. 18 Lawrence Ave., Brooklyn, N. Y.
Fischler, A. 1603 Mermaid Ave., Brooklyn, N. Y.
Foltan, L. 1024 Bryant Ave., N. Y. C.
Frisch, S. 365 Madison St., N. Y. C.
Gondiosa, A. J. 4433 Park Ave., N. Y. C.
Gross, S. 77 Hinman St., Middle Village, L. I.
Korody, N. D. 48-41 47th St., Woodside, L. I.
Lake, F. J. 128 Parkville Ave., Brooklyn, N. Y.
Levy, M. 2634 E. 14th St., Brooklyn, N. Y.
Morgan, A. L. 1458 E. 56th St., Brooklyn, N. Y.
Muzelak, M. N. 317 E. 92nd St., N. Y. C.
Stephensen, F. 66 Rutherford Pl., N. Arlington, N. J.

Section II

ons, J. 1319 45th St., Brooklyn, N. Y.
uckman, L. E. 844 Trinity Ave., N. Y. C.
derman, H. L. 717 DeKalb Ave., Brooklyn, N. Y.
omez, C. A. 206 34th St., Woodcliff, N. J.
reenberg, J. H. 7119 19th Ave., Brooklyn, N. Y.
reenberger, W. 2055 Grand Concourse, Bronx, N. Y.
udel, J. F. 574 73d St., Brooklyn, N. Y.
app, E. G. 90-63 179th St., Jamaica, L. I.
arris, L. L. 360 St. Ann's Ave., N. Y. C.
Hill, J. A. 738 Howard Ave., Brooklyn, N. Y.
Horesta, S. G. 225 4th St., Passaic, N. J.
Horowitz, B. 1723 W. 5th St., Brooklyn, N. Y.
Howard, I. W. 4332 Marilda Ave., Bronx, N. Y.
Kahlenberg, A. 6213 23d Ave., Brooklyn, N. Y.
Kelly, P. J. 379 Washington Ave., Astoria, L. I.
Kirchner, E. 99-42 41st Ave., Corona, L. I.
Kivo, S. 1475 Metcalf Ave., Bronx, N. Y.
Knipper, F. E. 550 Bainbridge St., Brooklyn, N. Y.
Kochman, E. J. 438 E. 70th St., N. Y. C.
Koehl, J. 684 Ralph Ave., Brooklyn, N. Y.
Koloff, B. 50 Henry St., Passaic, N. J.
Korn, N. L. 529 Forest Ave., W. Brighton, S. I.

Kreisinger, P. S. 216 Madison Ave., Clifton, N. J.
Kroll, L. A. 1931 62nd St., Brooklyn, N. Y.
Leff, S. 770 Bryant Ave., N. Y. C.
Leffler, C. T. 1463 E. 12th St., Brooklyn, N. Y.
Lehti, H. J. 1181 Walton Ave., Bronx, N. Y.
Lemler, W. J. 287 E. 141st St., N. Y. C.
Leverock, S. C. 112-20 95th Ave., Richmond Hill, L. I.
Lewis, I. D. 21 E. 110th St., N. Y. C.
Linsky, D. J. 1748 56th St., Brooklyn, N. Y.
Lipman, A. L. 285 W. 261st St., N. Y. C.
Mayer, J. B. 311 W. 112th St., N. Y. C.
Mendizza, G. R. 409 69th St., Brooklyn, N. Y.
Moriarty, M. M. 478 W. 159th St., N. Y. C.
Nagosniner, G. 1168 Vyse Ave., Bronx, N. Y.
Nelson, A. J. 320 Ovington Ave., Bklyn, N. Y.
Niebuhr, T. W. 1215 Fulton Ave., Bronx, N. Y.
Riordan, J. A. 47-52 44th St., Woodside, L. I.
Schubel, K. E. 310 W. 95th St., N. Y. C.
Solhoff, E. 38 Union Square, N. Y. C.
Stiglitz, J. 47 Morton St., N. Y. C.
Sweeney, J. J. 412 4th Ave., Brooklyn, N. Y.

Section III

Ginsberg, S. Parkville, N. Y.
Goldstein, N. 137 Stockton St., Brooklyn, N. Y.
Nelson, J. 685 E. 140th St., N. Y. C.
Nesti, A. J. 546 Brace Ave., Perth Amboy, N. J.
Odin, V. W. 3463 107th St., Corona, N. Y.
Paolillo, D. J. 454 Carlton Ave., Brooklyn, N. Y.
Pellegrini, W. 22 King St., N. Y. C.
Pettersen, E. A. 10 Beech St., Cranford, N. J.
Politi, C. 1988 Cruger Ave., Bronx, N. Y.
Pooch, G. C. 32 St. Marks Ave., Brooklyn, N. Y.

Reuss, W. P. 130 Highpoint Ave., Weehawken, N. J.
Ringel, P. 565 Elton St., Brooklyn, N. Y.
Romer, H. 2158 72nd St., Brooklyn, N. Y.
Roth, J. A. 4 Wash. Parkway, Bayonne, N. J.
Roulett, J. P. 23 Davis St., L. I. C.
Saraniero, E. J. 132 Clermont Ave., Bklyn, N. Y.
Scharf, Hyman 605 Rockaway Ave., Brooklyn, N. Y.
Scheikowitz, P. J. 79 Brook St., Tompkinsville, S. I.
Schmidt, Fred W. 257 Linden St., Brooklyn, N. Y.
Schuyler, W. F. 43-06 45th St., L. I. C.

Three Hundred Four



Silvera, G. E. 71-15 67th Pl., Glendale, Queens
Stolle, A. D. 119 S. Broadway, White Plains, N. Y.
Sverdlik, I. 144-32 Liberty Ave., Jamaica, N. Y.
Tarnowsky, E. 43 Garfield St., Yonkers, N. Y.
Tracey, F. A. 275 Harrison Ave., Jersey City, N. J.
Vanek, F. 67-33 52nd Ave., Maspeth, L. I.

Wald, N. 393 S. 2nd St., Brooklyn, N. Y.
Ward, F. F. 1508 Amsterdam Ave., N. Y. C.
White, F. E. 3119 103d St., Corona, N. Y.
Wilson, E. B. 2621 Cortelyou Rd., Bklyn, N. Y.
Wolin, M. 105-35 150th St., Jamaica, Queens, N. Y.

ELECTRICAL ENGINEERING, 1931

Auerbach, D. 32 Meserole St., Bklyn, N. Y.
Autere, S. A. 1667 Grand Ave., Bronx, N. Y.
Bateman, J. F. 93 Central Ave., Orange, N. J.
Brida, L. 724 E. 229th St., N. Y. C.
Burns, Jr., J. B. 195 Halsted Rd., Elizabeth, N. J.
Castaing, E. J. 7816 Ft. Hamilton Pkwy., Bklyn, N. Y.
Chisholm, C. E. 330 Park Ave., Roosevelt, L. I.
Denmark, R. 1529 42nd St., Brooklyn, N. Y.
Dolle, Jr., A. 8593 98th St., Woodhaven, L. I.
Dupont, W. E. 112 Aqueduct Ave., Yonkers, N. Y.
Foernsler, L. O. 11113 113th St., Rich. Hill, L. I.
Gaydos, G. J. 381 Troutman St., Brooklyn, N. Y.
Geerken, H. 88 Van Reypen St., Jersey City, N. J.
Hager, J. P. 7517 11th Ave., Brooklyn, N. Y.
Hunter, F. E. 8903 104th St., Richmond Hill, L. I.
Joffe, I. 1442 Charlotte St., Bronx, N. Y.
Kraus, J. F. R.F.D. No. 2, Plainfield, N. J.
Kallen, J. R. 1502 Crotona Park East, N. Y. C.
Kleinfelder, A. E. 291 West St., Union City, N. J.
Lazar, E. F. 4635 Bronx Blvd., N. Y. C.
Lofgren, K. E. 525 River St., Hoboken, N. J.

Lund, H. A. 2956 Bainbridge Ave., Bronx, N. Y.
Marinelli, L. D. O. 137 W. 111th St., N. Y. C.
Miller, S. 279 Hart St., Brooklyn, N. Y.
Muller, O. H. 82 Third St., Clifton, N. J.
Pansini, A. J. 16 Kings Pl., Bklyn, N. Y.
Pasquale, J. A. 39 King St., N. Y. C.
Phillips, J. W. 10333 103rd St., Rich. Hill, L. I.
Raile, Fred J. 220 E. 197th St., N. Y. C.
Rozie, J. M. 29 Va. Ave., West Orange, N. J.
Rowley, K. E. 1815 Riverside Dr., N. Y. C.
Seitz, Fred J. 446 W. 50th St., N. Y. C.
Slavin, J. J. 919 Madison Ave., Elizabeth, N. J.
Sparr, A. E. 610 E. 138th St., N. Y. C.
Stolte, F. 2241 Powell Ave., N. Y. C.
Stutz, F. A. 311 32nd St., Woodcliff, N. J.
Van Blevkom, L. 1319 Rosedale Ave., Bronx, N. Y.
Whelan, A. V. 560 W. 160th St., N. Y. C.
Winter, F. J. 908 Lincoln Pl., Teaneck, N. J.
Wohlgemuth, A. 1151 E. 165th St., N. Y. C.
Wurmser, A. V. 57 Euclid Ave., Ridgefield Park

ELECTRICAL ENGINEERING, 1932

Anderson, W. A. 240 Winthrop St., Bklyn, N. Y.
Antos, M. 893 Knickerbocker Ave., Bklyn, N. Y.
Balsam, H. 7 Ellwood St., N. Y. C.
Behnken, R. W. 32-22 41st St., Astoria, L. I.
Belzer, J. 1205 Eastern Parkway, Bklyn, N. Y.
Bertero, G. A. 74 E. 4th St., Bklyn, N. Y.
Billman, E. F. 195 Fountain Ave., Bklyn, N. Y.
Brady, R. J. 230 Seeley St., Bklyn, N. Y.
Brunck, P. V. 124 Corbin Ave., Jersey City, N. J.
Cobianchi, T. 150 Lewis St., Paterson, N. J.
Craig, J. A. 298 Hamilton Pl., Hackensack, N. J.
Davis, J. 217 Governor St., Paterson, N. J.
Distefano, E. 906 Simpson St., Bronx, N. Y.
Fethi, Saim I. 55 Tiemann Pl., N. Y. C.
Fox, J. E. 42 2nd St., Fair Lawn, N. J.
Hager, F. M. 7517 11th Ave., Bklyn, N. Y.
Hoecke, P. D. 111-15 148th St., Jamaica, L. I.
Kallman, K. P. 321 W. 11th St., N. Y. C.
Kearney, T. F. 2970 Bainbridge Ave., Bronx, N. Y.
Kelly, M. J. 443 E. 135th St., N. Y. C.
Kuenzler, E. A. 725 Hillside Ave., Grantwood, N. J.
La Rose, W. 1791 New York Ave., Bklyn, N. Y.
Laschiver, H. 832 Whitlock Ave., N. Y. C.
Lewthwaite, R. B. 422 Rochelle Ave., Rochelle Park, N. J.
Loewel, M. E. 1548 57th St., Bklyn, N. Y.
Lundie, E. S.

6140 Saunders St., Rego Park, Elmhurst, L. I.
McDermott, J. A. 219 E. 237th St., N. Y. C.
Michal, J. 1725 Davidson Ave., Bronx, N. Y.
Nicholides, E. C. 807 St. Ann's Ave., Bronx, N. Y.
Osrin, J. 1950 Daly Ave., Bronx, N. Y.
Pappe, J. B. 1722 Grove St., Bklyn, N. Y.
Parodi, V. 38 MacDougal St., N. Y. C.
Perlstein, H. 1753 71st St., Bklyn, N. Y.
Phelan, E. A. 121 Tuers Ave., Jersey City, N. J.
Piano, J. J. 433 20th St., W. New York, N. Y.
Quinn, J. J. 330 E. 126th St., N. Y. C.
Remington, R. S. 19 Steuben St., E. Orange, N. J.
Richter, F. J. 352 W. 44th St., N. Y. C.
Schneider, C. 1574 Leland Ave., Bronx, N. Y.
Schoell, W. 1247 Webster Ave., N. Y. C.
Schroeder, L. G. Admont Ave., Franklin Sq., N. Y.
Schulz, H. F. 43-31 Elbertson St., Elmhurst, L. I.
Sheridan, H. J. 97-05 103rd Ave., Richmond Hill, L. I.
Slezak, S. T. 324 E. Sixth St., N. Y. C.
Stewart, C. F. 668 E. 224th St., N. Y. C.
Tomacheck, M. 886 Steinway Ave., Astoria, L. I.
Van Blerkom, S. D. 1319 Rosedale Ave., N. Y. C.
Van Sicklen, E. 41 Vail St., Islip, N. Y.
Windrum, R. 817 41st St., Bklyn, N. Y.
Yacknowitz, S. B. 1990 Hughes Ave., Bronx, N. Y.
Ziegberman, J. L. 417 Kinderman Pl., Bronx, N. Y.

ELECTRICAL ENGINEERING, 1933

Section I

Balacek, F. P. 1458 First Ave., N. Y. C.
Brooks, E. 2015 Homecrest Ave., Bklyn, N. Y.

Brosche, M. F. 180 West St., Englewood, N. J.
Burdian, W. 41-22 52nd St., Woodside, L. I.

Three Hundred Five



Carroll, J. J. 169 Park Pl., Bklyn, N. Y.
 Cuttica, H. 421 West 44th St., N. Y. C.
 Dela Cruz, M. P. 347 E. 31st St., N. Y. C.
 Dichter, M. 14 Cole Court, Bklyn, N. Y.
 Dorigo, L. C. 734 County Ave., Secaucus, N. J.
 Dunlap, H. T. 415 Berwick St., Orange, N. J.
 Egli, J. 258 E. 165th St., Bronx, N. Y.
 Ellis, Travers S. 98 W. 183d St., N. Y. C.
 Feinstein, I. 337 E. 18th St., N. Y. C.
 Fichter, M. O. 1421 Sterling Pl., Bklyn, N. Y.
 Frangoi, A. 200 W. 113th St., N. Y. C.

Friedenthal, A. 4617 15th Ave., Bklyn, N. Y.
 Frost, A. F. 3131 Academy St., L. I. C.
 Geipel, W. E. 259 Euclid Ave., Bklyn, N. Y.
 Gillim, J. 135 Madison Ave., Elizabeth, N. J.
 Graber, E. 42-12 Ditmars Blvd., Astoria, L. I.
 Gruner, F. R. 51 Ryerson Ave., Paterson, N. J.
 Hamm, W. J. 54 Maple Ave., Rosebank, S. I.
 Holmlin, H. W. 218 91st St., Bklyn, N. Y.
 Lampkin, R. J. 211 W. 146th St., N. Y. C.
 Schlang, K. 157 W. 92nd St., N. Y. C.
 Stark, J. 3722 98th St., Corona, N. Y. C.

Section II

Fischer, O. L. 25 E. Moshulu Park, N., N. Y. C.
 Freericks, L. 660 E. 221st St., N. Y. C.
 Larkin, J. J. 412 E. 142nd St., N. Y. C.
 Latzoni, S. 459 River Drive, Garfield, N. J.
 Ludwig, A. 154-44 13th Ave., Beechhurst, N. Y.
 Niver, A. 943 Whitlock Ave., Bronx, N. Y.
 Oswald, L. R. 55 Hanson Pl., Bklyn, N. Y.
 Peavy, R. L. 3822 Bailey Ave., Bronx, N. Y.
 Pellicchia, L. 248 6th Ave., Bklyn, L. I.
 Prucha, H. E. 117 Suffolk Rd., Island Park, L. I.
 Ritter, E. 1422 Camelia St., Astoria, L. I.
 Sherman, J. B. 847 Manida St., Bronx, N. Y.
 Sklar, H. L. 2066 Mohegan Ave., Bronx, N. Y.

Slavik, F. C. 2556 33rd St., Astoria, L. I.
 Soller, H. 215 W. 23rd St., N. Y. C.
 Spies, E. R. 234 N. Regent St., Port Chester, N. Y.
 Spinelli, Jr., F. P. 7 Glen St., Grantwood, N. J.
 Tolivar, C. A. 3016 Clarendon Rd., Bklyn, N. Y.
 Treichlinger, E. R. 152 W. 168th St., N. Y. C.
 Van Rosenberg, W. 306 Van Houten St., Paterson, N. J.
 Velleman, S. 253 Cumberland St., Bklyn, N. Y.
 Wagner, W. W. 191-19 109th Rd., Hollis, L. I.
 Weinberg, S. 24 Bay 31st St., Bklyn, N. Y.
 Weiss, Michael 99 Manhattan Ave., Bklyn, N. Y.
 Wenzousky, I. 137 Godwin Ave., Paterson, N. J.

ELECTRICAL ENGINEERING, 1934

Section I

Adams, R. C. 228 W. 10th St., N. Y. C.
 Angermuller, J. O. 461 Onderdonk Ave., Bklyn, N. Y.
 Ankers, P. F. 42 33 155th St., Flushing, L. I.
 Blam, L. L. 24-75 38th St., L. I. C.
 Bocchicchio, P. A. 280 9th Ave., Bklyn, N. Y.
 Boxer, M. W. 1114 Sherman Ave., N. Y. C.
 Brodsky, J. 2179 Washington Ave., Bronx, N. Y.
 Brophy, E. J. 324 15th St., Midland Beach, S. I.
 Brune, W. J. 831 Elton Ave., N. Y. C.
 Cahill, J. V. 556 W. 160th St., N. Y. C.
 Chrisman, M. D. 408 Ellison St., Paterson, N. J.
 Coffin, A. G. 158 E. 38th St., Bklyn, N. Y.
 Cohen, S. 201 President St., Passaic, N. J.
 Constable, J. 10120 107th St., Richmond Hill, N. Y.
 Currie, J. E. 28 Celeste Court, Bklyn, N. Y.
 Daubenschmidt, E. R. 711 Lydig Ave., N. Y. C.
 Dorman, F. H. 602 W. 146th St., N. Y. C.

Duke, H. 1156 College Ave., Bronx, N. Y.
 Eichler, S. 1490 Brook Ave., N. Y. C.
 Ekstrand, S. O. 18 Cole St., Bergenfield, N. J.
 Folger, H. A. 146-33 20th Rd., Whitestone
 Gabriel, L. V. 232 E. 19th St., N. Y. C.
 Herman, F. 475 S. Columbus Ave., Mt. Vernon, N. Y.
 Kalna, K. J. 549 36th St., Woodcliff, N. J.
 Keegan, III, J. H. 4746 45th St., Woodside, L. I. C.
 Klein, M. 82 Ravine Ave., Yonkers, N. Y.
 Kopolowitz, S. M. 3043 Emmons Ave., Bklyn, N. Y.
 McGuire, L. T. 649 Bay Ridge Park, Bklyn, N. Y.
 McManamy, J. J. 63 W. 184th St., N. Y. C.
 Neely, T. H. 244-26 137th Ave., Rosedale, L. I.
 Penczer, R. A. 255 W. 95th St., N. Y. C.
 Wield, P. F. 179-03 Jamaica Ave., Jamaica, N. Y.

Section II

Anselmo, J. 349 E. 32nd St., N. Y. C.
 Dublin, L. I. 1735 Sterling Pl., Bklyn, N. Y.
 Ehrenberg, N. S. 60 8th Ave., Passaic, N. J.
 Fredrikson, J. 877 61st St., Bklyn, N. Y.
 Goazempis, M. G. 1929 Davidson Ave., N. Y. C.
 Grutzner, W. E. 397 Prospect Ave., Bklyn, N. Y.
 Kornbluth, S. 154 S. 3d St., Bklyn, N. Y.
 Krieger, B. 3810 Park Ave., N. Y. C.
 Krause, H. H. 84 Irving St., Jersey City, N. J.
 Kupferman, E. J. 3560 Rochambeau Ave., Bronx, N. Y.
 Levinson, M. 8745 26th Ave., Bklyn, N. Y.
 Lopow, L. 361 Barrett St., Bklyn, N. Y.
 Marks, J. D. 5 W. 63d St., N. Y. C.
 Matthisse, I. F. 4470 Park Ave., Bronx, N. Y.
 Mescheloff, I. A. 307 Martense St., Bklyn, N. Y.

Miller, J. R. 749 Jennings St., Bronx, N. Y.
 Mond, L. 709 E. 9th St., N. Y. C.
 Noloboff, M. 587 Jerome St., Bklyn, N. Y.
 O'Brien, G. W. 237-30 Edmore Ave., Queens Village, N. Y.
 Rath, W. F. 5579 Boulevard, N. Bergen, N. J.
 Reimann, R. 1433 57th St., Bklyn, N. Y.
 Reiter, D. M. 351 E. Houston St., N. Y. C.
 Ribreau, G. E. 4335 Lowery St., L. I. C.
 Ritchie, D. Y. M. C. A., 15 Riverdale Ave., Yonkers, N. Y.
 Schmitt, H. G. 62-37 80th Rd., Ridgewood, N. Y.
 Schuler, G. J. 538 W. 149th St., N. Y. C.
 Smith, E. V. 1153 Grand Concourse, N. Y. C.
 Smythe, W. H. A. 14 Marion Rd., Verona, N. J.
 Straub, H. W. North Hackensack, N. J.



Tesoriero, J. 7711 5th Ave., Bklyn, N. Y.
 Tinkel, L. J. 152 W. 64th St., N. Y. C.
 Warshofsky, D. 1015 56th St., Bklyn, N. Y.
 Webb, W. B. 4223 Grace Ave., Bronx, N. Y.

7711 5th Ave., Bklyn, N. Y.
 152 W. 64th St., N. Y. C.
 1015 56th St., Bklyn, N. Y.
 4223 Grace Ave., Bronx, N. Y.

Weinstein, J. 2577 Davidson Ave., Bronx, N. Y.
 Wiener, N. 205-24 110th Ave., Hollis, L. I.
 Wille, A. J. 3137 Corlear Ave., N. Y. C.
 Woebecke, J. P.

2577 Davidson Ave., Bronx, N. Y.
 205-24 110th Ave., Hollis, L. I.
 3137 Corlear Ave., N. Y. C.

ELECTRICAL ENGINEERING, 1935

Section I

Abel, M. 231 Watkins St., Bklyn, N. Y.
 Aruck, M. 603 E. 6th St., N. Y. C.
 Beckermann, A. D. 1052 Anderson Ave., Bronx, N. Y.
 Bergler, R. J. 1981 La Fontaine Ave., Bronx, N. Y.
 Blumberg, W. F. 3711 98th St., Corona, L. I.
 Bond, H. W. 25 Elmora Ave., Cranford, N. J.
 Borch, O. W. 321 E. 85th St., N. Y. C.
 Brouillard, E. E. 742 Garfield Ave., Jersey City, N. J.
 Burke, A. W. 545 W. 111th St., N. Y. C.
 Calcante, F. 106 Bradford St., Bklyn, N. Y.
 Carlin, J. G. 34-38 42nd St., L. I. C.
 Carr, R. W. 69 Greeley Ave., New Dorp, S. I.
 Cataldo, V. M. 635 E. 137th St., N. Y. C.
 Coffey, J. E. 1470 84th St., Bklyn, N. Y.

Coleman, I. M. 89 Seaman Ave., N. Y. C.
 Costa, J. F. 7811 19th Ave., Bklyn, N. Y.
 Cryan, L. M. 412 Logan Ave., N. Y. C.
 Cuttica, H. 421 W. 44th St., N. Y. C.
 Dlugatch, I. 825 DeKalb Ave., Bklyn, N. Y.
 Epstein, L. 25 E. Clarke Pl., Bronx, N. Y.
 Fleischer, H. E. 3344 71st St., Jackson Hts., L. I.
 Franke, H. C. 594 St. Ann's Ave., N. Y. C.
 Frascella, T. J. 779 Livonia Ave., Bklyn, N. Y.
 Garrelman, L. H. 1350 Stebbins Ave., N. Y. C.
 Gelbart, A. 219 Keen St., Paterson, N. J.
 Gorman, C. E. 153-24 Sanford Ave., Flushing, L. I.
 Mackinnon, R. M. 5 W. 63rd St., N. Y. C.
 Piro, V. D. 1249 Tinton Ave., Bronx, N. Y.

Section II

Adler, N. 1411 77th St., Bklyn, N. Y.
 Balizer, P. 315 Vernon Ave., Bklyn, N. Y.
 Dutra, F. A. 140-40 Beech Ave., Flushing, N. Y.
 Forsythe, T. 358 W. 122nd St., N. Y. C.
 Genneken, C. 46 Reservoir Ave., Wallington, N. J.
 Goebeler, Sr., W. H. 1263 Webster Ave., Bronx, N. Y.
 Goode, H. D. 304 Washington St., Bklyn, N. Y.
 Gorin, L. 2138 Crotona Pkwy., Bronx, N. Y.
 Gravidal, N. 654 46th St., Bklyn, N. Y.
 Grutzner, H. 397 Prospect Ave., Bklyn, N. Y.
 Hayes, W. S. 315 State St., Hackensack, N. J.
 Heller, J. 1025 Aldus St., Bronx, N. Y. c/o Renkin
 Hess, G. C. 603 S. 20th St., Newark, N. J.
 Hoffman, F. W. 237 8th Ave., Astoria, L. I.
 Imholz, F. G. 33-44 170th St., Flushing, N. Y.
 Inman, N. S. 1222 Nelson Ave., Bronx, N. Y.
 Isherwood, H. 522 W. 150th St., N. Y. C.
 Kaminsky, M. 126 Clara St., Bklyn, N. Y.

Katz, N. N. 459 Willoughby Ave., Bklyn, N. Y.
 Kluz, W. C. 106 Catskill Ave., Yonkers, N. Y.
 Landsverk, A. J. 163 15th St., W. New York, N. J.
 Larson, H. W. 9404 Fort Hamilton Parkway, Bklyn, N. Y.
 Lauffer, O. A. 698 Amsterdam Ave., N. Y. C.
 Lindheimer, E. M. 5201 94th St., Elmhurst, N. Y.
 Long, L. J. 3 West 8th St., N. Y. C.
 Marsh, J. W. 804 Bloomfield St., Hoboken, N. J.
 McMahon, J. J. V. 1236 Clay Ave., N. Y. C.
 Newman, O. 608 Third Ave., N. Y. C.
 Offit, O. 3130 81st St., Jackson Hts., L. I.
 Oliviant, J. W. 880 Madison Ave., Bklyn, N. Y.
 Orellana, Ildefonso W. 8249 233rd St., Queens Village, L. I.
 Osterholz, D. 60-15 Woodbine St., Ridgewood, L. I.
 Stern, R. 23-25 Goodrich St., L. I. C.
 Swisher, J. V. 745 Knickerbocker Ave., Bklyn, N. Y.

Section III

Bryn, R. H. 1012 Ocean Ave., Bklyn, N. Y.
 Buckley, E. J. Venetian Shores, Lindenhurst, N. Y.
 Krieg, E. 346-8 E. 17th St., N. Y. C.
 Noelle, H. C. 1133 Teller Ave., N. Y. C.
 Pappas, L. A. 178 E. 77th St., N. Y. C.
 Paul, E. 21-24 Second Ave., Astoria, L. I.
 Pelletier, R. A. 46-12 Robinson Ave., Flushing, L. I.
 Perlman, I. 1366 Lyman Place, N. Y. C.
 Peters, F. W. 71-16 66th Place, Glendale, L. I.
 Quick, W. S. 518 Trinity Place, Westfield, N. J.
 Rodewald, F. W. C. 415 E. 173rd St., N. Y. C.
 Roiter, A. 285 Madison St., N. Y. C.
 Rotella, F. 700 E. 163rd St., N. Y. C.
 Rozen, L. 1901 Walton Ave., Bronx, N. Y.
 Scanlon, R. P. 282 Reservoir Place., Bronx, N. Y.
 Schaible, G. J. 427 Fairmount Ave., Jersey City, N. J.

Schoener, C. 169 Brook Ave., Bronx, N. Y.
 Slechta, A. G. 881 E. 179th St., N. Y. C.
 Tanner, T. L. 311 Oak Ave., Oakwood Hts., S. I.
 Thorsen, T. E. 844 42nd St., Bklyn, N. Y.
 Tschupp, M. A. 29 Devoe St., Bklyn, N. Y.
 Visco, P. H. 303 6th Ave., N. Y. C.
 Weiss, J. 3102 Neptune Ave., Bklyn, N. Y.
 Westerstrom, C. A. 968 Gillies Ave., North Bergen, N. J.
 Wetmore, H. D. 1 Arden St., N. Y. C.
 White, E. G. 120-36 195th St., St. Albans, L. I.
 White, J. B. 357 9th St., Bklyn, N. Y.
 Wilcox, D. 2444 Walton Ave., N. Y. C.
 Wildfeir, S. 1369 44th St., Bklyn, N. Y.



INSTITUTE OF TECHNOLOGY, 1931

Chemical Engineering

Cohen, J.	72 N. Prince St., Flushing, N. Y.	Schilian, E.	95 Pulaski St., Bklyn., N. Y.
Goldberg, J.	10 Rutgers Place, N. Y. C.	Sheridan, J. R.	36 Union Square, N. Y. C.
Kauber, G. A.	9012 215th St., Queens Village, L. I.	Stolzenbach, C.	333 E. 14th St., N. Y. C.
Kenworthy, L. A.	547 N. 11th St., New Hyde Park, L. I.	Wolins, R.	1272 Boston Road, Bronx, N. Y.

Civil Engineering

Cohen, Sam	1117 Gerard Ave., Bronx, N. Y.	Saltzman, M. J.	3341 72nd St., Jackson Hts., L. I.
Gill, M. L.	16 Ascension St., Passaic, N. Y.	Sullivan, R. G.	1652 72nd St., Bklyn., N. Y.
Lipschitz, J.	133 Ellery St., Bklyn., N. Y.	Tonjes, E.	108 Seventh Ave., Bklyn., N. Y.
Matzick, M. H.	77 Grace St., Jersey City, N. J.	Weinrub, J. G.	849 Crotona Park N., Bronx, N. Y.
Peters, W. D.	29 N. Madison Ave., Spring Valley, N. Y.		

Mechanical Engineering

Greenberg, S.	2998 W. 29th St., Bklyn., N. Y.	Steinberg, L.	11 2nd Ave., N. Y. C.
Kario, S.	218-46 Hempstead Rd., Queens Village, N. Y.	Vopat, W.	32 Wyoming Ave., Lynbrook, L. I.

Electrical Engineering

Arahamsen, G. A.	218-35 104th Ave., Queens Village, N. Y.	Kastens, R. H. C.	105 Hauxhurst Ave., Weehawken, N. J.
Behn, V. D.	73 Hemlock St., Bklyn., N. Y.	Murphy, J. J.	191 E. 31st St., Bklyn., N. Y.
Burmeister, H.	20 Cypress Ave., Port Washington, N. Y.	Nilsson, H.	161 Menahan St., Bklyn., N. Y.
Clark, H. S.	122 Van Houten Ave., Passaic, N. J.	O'Sullivan, G. H.	2629 Sedgwick Ave., Bronx, N. Y.
Goldman, R.	4119 13th Ave., Bklyn., N. Y.	Paledes, T. P.	405 W. 48th St., N. Y. C.
Grissler, H.	652 Myrtle Ave., Bklyn., N. Y.	Rabinow, D.	341 Pennsylvania Ave., Bklyn., N. Y.
Hoffman, H.	697 Lafayette Ave., Hawthorne, N. J.	Schoenfish, H.	289 Woodlawn Ave., Jersey City, N. J.
Jucciarone, N.	105 Prospect St., Pt. Richmond, S. I.	Weintraub, S.	567 E. 26th St., Paterson, N. J.

INSTITUTE OF TECHNOLOGY, 1932

Chemical Engineering

Goldfinger, L. D.	30 Bay 35th St., Bklyn., N. Y.	Levy, J.	489 E. 25th St., Paterson, N. J.
Kosolapoff, G.	391 Central Park West, N. Y. C.	Panebianco, J.	340 91st St., Bklyn., N. Y.

Civil Engineering

Dinkjian, N.	597 Bergenline Ave., West New York, N. J.	Michaelis, E.	275 Westervelt Ave., New Brighton, S. I.
Drago, E. A.	176 Grandview Ave., Mariners Harbor, S. I.	O'Donnell, W. J.	117-34 140th St., South Ozone Park, L. I.
Groves, M. W.	338 Eighth Ave., Pelham, N. Y.	Pollock, R.	1999 Cornell Ave., Bronx, N. Y.
Karathanasis, N.	164 E. 33rd St., N. Y. C.	Ward, F. X.	1295 Union Ave., N. Y. C.
Janigan, J. J.	338 E. 123rd St., N. Y. C.		

Mechanical Engineering

Ballif, J.	4116 50th St., Woodside, L. I.	Kessler, H.	1220 Stebbins Ave., N. Y. C.
Eddy, W. T. Jr.	23 Beech St., East Orange, N. J.	Levy, S.	80 Pennsylvania Ave., Bklyn., N. Y.

Three Hundred Eight



Electrical Engineering

Behn, E.	73 Hemlock St., Bklyn., N. Y.	Mastropole, A. J.	428 W. 163rd St., N. Y. C.
Bradshaw, C. W.	234 Main St., Highland Falls, N. Y.	Mundel, A. B.	787 Crotona Park, Bronx, N. Y.
Briansky, D.	1049 E. 93rd St., Bklyn., N. Y.	Menschaefer, G. C.	2221 Haviland Ave., Bronx, N. Y.
Burns, W. J.	24 Prospect St., Port Washington, L. I.	Rapisarda, A.	324 E. 220th St., Bronx, N. Y.
Cottony, H. W.	235 W. 110th St., N. Y. C.	Shemin, G. D.	5912 20th Ave., Bklyn., N. Y.
Ginsberg, A. M.	9 Boulevard, Whitestone, L. I.	Silberman, B. H.	320 Seabreeze Ave., Bklyn., N. Y.
Grebe, H. L.	880 S. 16th St., Newark, N. J.	Stumpf, G. H.	1733 Garfield St., Bronx, N. Y.
Inslerman, F. A.	337 E. 34th St., N. Y. C.	Tannenbaum, J.	2403 Benson Ave., Bklyn., N. Y.
Kalisher, T. Jr.	375 Second Ave., Lyndhurst, N. J.	Townsend, H. C.	Howells, N. Y.
Kaune, H.	257 Woodworth Ave., Yonkers, N. Y.	Wallace, J.	764 Dawson St., Bronx, N. Y.
Langham, M. L.	Park Ave. and West St., Mamaroneck, N. Y.	Zeitz, Abe	264 Berriman St., Bklyn., N. Y.

INSTITUTE OF TECHNOLOGY, 1933

Section I

Bibaud, R. E.	2224 Homer Ave., Bronx, N. Y.	Lambert, P.	15 W. 67th St., N. Y. C.
Bogart, M. J. P.	558 Sagamore Ave., Teaneck, N. J.	Laughlin, J. W.	108 Center St., Richmond, S. I.
Ciesielski, C. P.	324 1/2 E. 8th St., N. Y. C.	Lawless, S. A.	427 Hancock St., Bklyn., N. Y.
Cooper, S.	335 S. 5th St., Bklyn., N. Y.	Liebmman, M.	106 E. 51st St., Bklyn., N. Y.
Dutoit, H. E.	305 E. 40th St., N. Y. C.	Mischanski, M. S.	17 Bond St., Wallington, N. J.
Engel, A.	651 W. 178th St., N. Y. C.	Nerken, A. I.	1702 Clay Ave., Bronx, N. Y.
Kittelman, E. J.	1151 St. Lawrence Ave., Bronx, N. Y.	Paz, A. R.	20 St. Marks Place, N. Y. C.
Kleban, S. J.	102 S. Main St., Spring Valley, N. Y.	Schneiderman, M.	2152 72nd St., Bklyn., N. Y.
Kushner, J. B.	597 E. 140th St., N. Y. C.	Steinmetz, J. J.	65 Alexander Ave., Yonkers, N. Y.
		Weissenberg, A.	97 Seaman Ave., N. Y. C.
		Zuckerman, H.	464 E. 145th St., N. Y. C.

Section II

Bauser, L. E.	9150 114th St., Richmond Hill, N. Y.	Gluck, H. A.	33 Willow Ave., Freeport, L. I.
Bessio, O.	555 Newark Ave., Jersey City, N. J.	Hildebrand, J. A.	628 W. 130th St., N. Y. C.
Bonnemort, C. R.	3409 Broadway, N. Y. C.	Hinton, E. D.	74 Gard Ave., Bronxville, N. Y.
Brawer, J.	568 Broadway, Paterson, N. J.	Jamison, T.	23 Redmond Ave., Bay Shore, L. I.
Costello, F. J.	2446 University Ave., Bronx, N. Y.	Jensen, H.	280 Riverside Drive, N. Y. C.
Denari, E. J.	8921 Ridge Blvd., Bklyn., N. Y.	Koch, E. C.	228 Manhattan Ave., Crestwood, N. Y.
Di Giovanni, H. J.	2280 Bathgate Ave., N. Y. C.	Lefkowitz, M.	236 Old Bergen Rd., Jersey City, N. J.
Edwards, M. G.	2432 E. 14th St., Bklyn., N. Y.	McKeever, S. K.	95 Chase Ave., Yonkers, N. Y.
Ernest, J. H. C.	3 N. 4th St., Paterson, N. J.	Romlein, W. J.	116 Princeton St., Nutley, N. J.
Falcicola, L. J.	408 3rd St., Union City, N. J.	Rosenstock, M. J.	815 W. 180th St., N. Y. C.
Gadzuk, J.	140 W. 100th St., N. Y. C.	Schoenfeld, E. Jr.	Montrose, N. Y.
Gerow, C. F.	531 Craig Ave., Totenville, S. I.		

Section III

Blum, A. E.	544 Hemlock St., Bklyn., N. Y.	Sarver, E.	1028 Rutland Rd., Bklyn., N. Y.
Carbone, A.	2 7th St., New Rochelle, N. Y.	Schneider, H. C.	761 E. 156th St., Bronx, N. Y.
Keller, E.	667 Jefferson Place, Bronx, N. Y.	Shapiro, J. R.	89 Seigel St., Bklyn., N. Y.
Kropp, C. H.	117 E. 15th St., N. Y. C.	Shottensfeld, R.	3233 Fulton St., Bklyn., N. Y.
Lagrec, C. J.	1044 Jefferson Ave., Bklyn., N. Y.	Sikofsky, G. L.	1206 E. N. Y. Ave., Bklyn., N. Y.
Lytle, J. B.	3408 Barker Ave., Bronx, N. Y.	Solins, D.	3728 Poplar Ave., Sea Gate Gardens, Bklyn., N. Y.
Mily, C. J.	273 E. 236th St., N. Y. C.	Stepis, J.	489 Logan St., Bklyn., N. Y.
Morea, T. A.	4118 48th Ave., L. I. C.	Sternlieb, E. I.	3212 Snyder Ave., Bklyn., N. Y.
Muck, B.	202 E. 103rd St., N. Y. C.	Stielman, J.	1977 80th St., Bklyn., N. Y.
Platts, H. H.	38 Sylvan St., Rutherford, N. J.	Trenck, E. F.	41 Hillside Ave., New Rochelle, N. Y.
Queen, H.	106 Utica Ave., Bklyn., N. Y.	Watkins, J.	165 E. 104th St., N. Y. C.
Rigrod, W. W.	2433 Barker Ave., N. Y. C.	Wilker, J.	1451 Eastern Pkway, Bklyn., N. Y.
Rosenfeld, A.	1112 Gerard Ave., Bklyn., N. Y.		
Ryan, E. H.	3118 Snyder Ave., Bklyn., N. Y.		

Three Hundred Nine



INSTITUTE OF TECHNOLOGY, 1934

Section I

Abt, C. F.	451 Academy St., Astoria, L. I.	Crystal, E. Z.	72 E. 7th St., N. Y. C.
Amols, I.	467 E. 16th St., N. Y. C.	De Biase, A.	535 E. Fifth St., N. Y. C.
Bassein, A. H.	1348 Clay Ave., Bronx, N. Y.	Domin, J. J.	13 Woodland Dr., Hempstead, L. I.
Bauman, C.	219 E. 7th St., N. Y. C.	Douthit, R.	618 St. Nicholas Ave., N. Y. C.
Belkin, I.	180 Floyd St., Bklyn., N. Y.	Drutman, J.	642 Lafayette Ave., Bklyn., N. Y.
Bertin, D.	11 Pierce Pl., Great Neck, L. I.	Dublin, M.	1735 Sterling Pl., Bklyn., N. Y.
Bihler, D. W. B.	3738 Olinville Ave., Bronx, N. Y.	Dunsay, S. H.	675 E. 233rd St., Bronx, N. Y.
Book, J. E.	2483 University Ave., N. Y. C.	Flaks, S. J.	89 Middleton St., Bklyn., N. Y.
Bramwell, F.	7 Glenada Pl., Bklyn., N. Y.	Hirsch, H. T.	242 E. 19th St., N. Y. C.
Braverman, A.	15 Matthews Pl., Bklyn., N. Y.	Kaplan, S.	314 Fair St., Paterson, N. J.
Brenner, M. M.	676 Tinton Ave., N. Y. C.	Kendall, R. H.	110 Manchester Ave., Paterson, N. J.
Bristor, J. D.	225 Gregory Ave., Passaic, N. J.	Kessler, L.	2115 Washington Ave., N. Y. C.
Carroll, E. J.	167 Willis Ave., N. Y. C.	Millman, A. B.	3374 12th Ave., Bklyn., N. Y.
Chibka, C.	2800 Bronx Park East, N. Y. C.	Remy, V. J.	400 6th Ave., Bklyn., N. Y.
Cohen, M. H.	331 E. 31st St., Paterson, N. J.		
Connelly, W. J.	134 Munro Blvd., Valley Stream, L. I.		

Section II

Amatneck, K.	621 Manida St., N. Y. C.	Howard, D. F.	45 Smith Ave., White Plains, N. Y.
Fox, A.	2135 E. 8th St., Bklyn., N. Y.	Hubner, J.	1120 Washington Ave., N. Y. C.
Friedberg, B.	154 Monroe St., Bklyn., N. Y.	Hurd, R.	E. Allendale Ave., Allendale, N. J.
Fromowitz, I.	601 Oak Terrace, N. Y. C.	Inman, C. Jr.	26 Chestnut St., Flushing, L. I.
Gilkeson, W. R.	Winant Ave., Rossville, S. I.	Itkin, K.	8753 26th Ave., Bklyn., N. Y.
Ginsberg, M. M.	150-11 7th Ave., Whitestone, L. I.	Jackson, H. G.	P. O. Box 128, Fanwood, N. J.
Glodek, W. E.	407 Lafayette St., Newark, N. J.	Jackson, W. R.	South Ave., Fanwood, N. J.
Grayman, R.	2800 Bronx Park East, N. Y. C.	Jackson, W.	20 Sammis Ave., Babylon, L. I.
Green, L. D. N.	578 River St., Paterson, N. J.	Jannuzzi, P.	627 Bramhall Ave., Jersey City, N. J.
Greenbaum, M.	64 Gerry St., Bklyn., N. Y.	Kaplan, H.	814 E. 163rd St., N. Y. C.
Greenberg, F. J.	70 Van Dyke St., Bklyn., N. Y.	Kinkel, J. W.	10931 205th St., Hollis, L. I.
Greenberg, L.	806 E. 175th St., N. Y. C.	Lasser, M.	568 Linden Blvd., Bklyn., N. Y.
Heppner, K.	468 Van Buren St., Bklyn., N. Y.	Lupinski, E. M.	34 Charles St., South River, N. J.
Hilbert, E. A.	289 Cook Ave., Yonkers, N. Y.		

Section III

Bollinger, A. J.	606 New Jersey Ave., Point Pleasant Beach, N. J.	Lipschitz, M.	4218 12th Ave., Bklyn., N. Y.
Del Giorno, A.	146-36 Queens Ave., Flushing, N. Y.	Lipsky, R.	82 W. 92nd St., N. Y. C.
Giovanello, P.	112 Christopher Ave., Bklyn., N. Y.	Lotito, J. D.	932 62nd St., Bklyn., N. Y.
Goldstein, S. S.	1907 Bay Ridge Pkway, Bklyn., N. Y.	McCaffrey, W. T.	161 St. Nicholas Ave., Bklyn., N. Y.
Infortunio, J.	1060 53rd St., Bklyn., N. Y.	McLean, K. C.	520 W. 218th St., N. Y. C.
Kihn, H.	98 Grant St., Passaic, N. J.	Medoff, J. I.	262 Hewes St., Bklyn., N. Y.
Klug, H. A.	2251 Powell Ave., N. Y. C.	Milusich, A. A.	24-43 32nd St., Astoria, L. I.
Kraft, B.	471 Gregory Ave., Passaic, N. J.	Mofenson, J.	1363 47th St., Bklyn., N. Y.
Langfelder, R. J.	15 Laurel Ave., Clifton, N. J.	Morison, J. A.	754 E. 23rd St., Bklyn., N. Y.
Larson, W. E.	9803 197th St., Hollis, L. I.	Mortara, M. A.	451 W. 44th St., N. Y. C.
Lask, G.	67 Grafton St., Bklyn., N. Y.	Murphy, C. T. G.	141 Livingston Ave., Yonkers, N. Y.
Leon, R. K.	878 Eastern Pkway, Bklyn., N. Y.	Murphy, D. J.	1410 Rowland St., Bronx, N. Y.
Leslie, F. B.	8856 Commonwealth Blvd., Bellerose, L. I.	Oill, B.	1294 Grant Ave., N. Y. C.
LeVine, H. D.	866 Belmont Ave., Bklyn., N. Y.	Oliver, D. F.	9519 132nd St., Richmond Hill, N. Y.
Levitzy, W.	259 E. 10th St., N. Y. C.	Petersen, P. H.	10217 129th St., Richmond Hill, N. Y.
Licursi, V. L.	503 McNeil Ave., Imwood, L. I.	Pinsker, I.	292 Brook Ave., N. Y. C.
Liebllich, M.	124 S. 3rd St., Bklyn., N. Y.	Rooney, J. A.	Colombus Ave., Valhalla, N. Y.

Section IV

Kronisch, L.	117 E. 7th St., N. Y. C.	Poignand, M. W.	96 Van Houten Ave., Passaic, N. J.
Kuchinsky, I.	171 Meade Ave., Passaic, N. J.	Rubinsky, M. A.	2816 W. 19th St., Bklyn., N. Y.
Magill, J. T.	439 Jefferson Ave., Bklyn., N. Y.		



Schwartz, S.	1547 Longfellow Ave., N. Y. C.	Tangora, E.	175 Totowa Ave., Paterson, N. J.
Schwartz, E.	273 Dumont Ave., Bklyn., N. Y.	Taylor, N. P.	Monsey, N. Y.
Scully, J. J.	845 Amsterdam Ave., N. Y. C.	Terry, G. C.	143-56 Sanford Ave., Flushing, N. Y.
Shaffer, R. M.	556 Crown St., Bklyn., N. Y.	Tobol, G.	910 Union Ave., Bronx, N. Y.
Shapiro, M.	489 Willoughby Ave., Bklyn., N. Y.	Torop, R.	1469 Hoe Ave., Bronx, N. Y.
Shilitz, S.	735 Dewey Ave., West New York, N. J.	Wamser, C.	2586 44th St., L. I. C.
Shoor, S.	115 Ave. N., Bklyn., N. Y.	Weiss, A.	45B Riverdale Ave., Yonkers, N. Y.
Simon, J.	215 Governor St., Paterson, N. J.	Weiss, I. H.	1163 St. John's Pl., Bklyn., N. Y.
Skelly, J. F.	1514 Albany Ave., Bklyn., N. Y.	Whittaker, E.	2124 2nd Ave., Astoria, N. Y.
Slobodow, J.	134 Manhattan Ave., Bklyn., N. Y.	Winick, D. S.	15-1 Bryant Ave., N. Y. C.
Stevens, W. C.	814 56th St., Bklyn., N. Y.	Wood, M. H.	77 Woods Ave., Roosevelt, N. Y.
Swertloff, S.	475 Linden Blvd., Bklyn., N. Y.	Wylie, R. A.	6924 Narrows Ave., Bklyn., N. Y.
Sykora, W. S.	31-51 41st St., Long Island City		

ARCHITECTURE, 1931

Altman, I.	225 E. 110th St., N. Y. C.	Nehls, F. R.	119 Sussex St., Hackensack, N. J.
Arciere, M.	108-49 42nd Ave., Corona, L. I.	Padilla, J. A.	108 W. 111th St., N. Y. C.
Arlotta, E.	39 King St., N. Y. C.	Perler, H.	571 E. 170th St., Bronx, N. Y.
Barnes, L. R. S.	913 K St., S. E., Washington, D. C.	Piazza, L. H.	381 Lafayette Ave., Passaic, N. J.
Beierlein, G. Edwin	8638 St. James Ave., Elmhurst, L. I.	Pollack, H. A.	1638 W. 8th St., Bklyn., N. Y.
Bertolamy, B. J.	1129 73rd St., Bklyn., N. Y.	Primost, Isidore	197 Vernon Ave., Bklyn., N. Y.
Betrock, N.	918 Dumont Ave., Bklyn., N. Y.	Raimondi, L.	727 11th St., Union City, N. J.
Bickelhaupt, J. E.	3711 74th St., Jackson Hts., L. I.	Reitman, H.	631 E. 138th St., Bronx, N. Y.
Collins, A. K.	301 68th St., Bklyn., N. Y.	Roberts, J. K.	1480 Bedford Ave., Bklyn., N. Y.
Dalis, J.	2141 Prospect Ave., Bronx, N. Y.	Robinson, S.	175 Ave. S., Bklyn., N. Y.
Edelman, S. A.	2124 74th St., Bklyn., N. Y.	Rothstein, J. J.	324 York St., Jersey City, N. J.
Geyer, W. L.	Hicksville, L. I.	Satto, B. J.	108-21 42nd Ave., Corona, L. I.
Glicksman, J. M.	347 21st St., Far Rockaway, L. I.	Savino, J. R.	2578 Hallett St., Astoria, L. I.
Grecco, S.	64 E. Broadway, N. Y. C.	Skolnick, A.	104 Riverdale Ave., Bklyn., N. Y.
Grodzicki, L.	8932 187th St., Hollis, L. I.	Smolin, G. J.	636 Wales Ave., Bronx, N. Y.
Habach, H. J.	1915 Daly Ave., Bronx, N. Y.	Solomon, J.	23 Hinsdale St., Bklyn., N. Y.
Heinlein, J. J.	166 Bleecker St., Bklyn., N. Y.	Stevens, W. P.	Snake Hill Rd., Haledon, N. J.
Horn, H. H.	941 Washington Ave., N. Y. C.	Svoboda, B.	7420 46th Ave., Elmhurst, L. I.
Kielyka, A. S.	129 Yonkers Ave., Yonkers, N. Y.	Taylor, W. J.	553 13th St., West New York, N. J.
Konrad, G. H.	2066 Anthony Ave., Bronx, N. Y.	Trudel, L. F.	873 Tompkins Ave., Fort Wadsworth, S. I.
Malmquist, H. T.	433 74th St., Bklyn., N. Y.	Turner, C. C.	542 W. 156th St., N. Y. C.
Marks, W. F. Jr.	65 Plum St., Paterson, N. J.	Van Duinen, C.	248 Page Ave., Lyndhurst, N. J.
Mazo, J.	841 Freeman St., Bronx, N. Y.		

ARCHITECTURE, 1932

Anthes, P. S.	2559 Grand Concourse, Bronx, N. Y.	Hamilton, E.	164 Sprague Ave., Tot, S. I.
Balcumes, B.	471 Senator St., Bklyn., N. Y.	Konzelman, J. J.	854 E. 230th St., Bronx, N. Y.
Boccio, J. M.	11 Delaware Ave., Flushing, L. I.	Lepetri, W.	303 Hendrix St., Bklyn., N. Y.
Bochinski, L.	118 Fulton St., Boonton, N. J.	Marino, J. A.	28 King St., N. Y. C.
Cirrigione, P.	3022 Cruger Ave., Bronx, N. Y.	Marraccino, J. Jr.	221 Linden St., Bklyn., N. Y.
Corrado, A. J.	2216 W. 10th St., Bklyn., N. Y.	Melov, C.	10940 114th St., Rich. Hill, N. Y.
Cronshey, K. T.	109 Speedwell Ave., Morris Plains, N. J.	Mirowitz, I. H.	132 S. 1st St., Bklyn., N. Y.
Davis, L. J.	2685 University Ave., Bronx, N. Y.	Nakos, J.	245 E. 18th St., N. Y. C.
De Marco, J.	57 Bayard St., N. Y. C.	Pedreschi, J.	124 31st St., Bklyn., N. Y.
De Nais, J.	77 W. 55th St., Bayonne, N. J.	Priven, A. E.	1608 47th St., Bklyn., N. Y.
De Vita, A.	161 1/2 23rd St., Bklyn., N. Y.	Puleo, C.	35 Suydam St., Bklyn., N. Y.
Dickson, A. J.	201 W. 81st St., N. Y. C.	Rifkin, H.	29 Ridge St., N. Y. C.
Di Stasio, A.	6 Clinton St., Port Chester, N. Y.	Robinson, E. T.	43 Prospect Pl., Plainfield, N. J.
Feiner, B.	594 Union Ave., Bronx, N. Y.	Sacher, H.	377 E. 137th St., Bronx, N. Y.
Feinstein, B.	2023 Belmont Ave., Bronx, N. Y.	Salzone, J. L.	1292 Sixth Ave., N. Y. C.
Figlozzi, J. J.	891 70th St., Bklyn., N. Y.	Schmidt, C. G.	309 Lenox Rd., Bklyn., N. Y.
Fisher, D.	314 Bay 10th St., Bklyn., N. Y.	Schwartz, C. M.	1946 86th St., Bklyn., N. Y.
Folding, J.	2530 95th St., Jackson Hts., L. I.	Sheffield, F. M.	Haworth Drive, Haworth, N. J.
Forlano, E. P.	25-15 Wilbur Ave., L. I. City, N. Y.	Silverman, R.	338 E. 15th St., N. Y. C.
Fregosi, A. J.	685 E. 224th St., Bronx, N. Y.	Soicher, I. G.	1416 Stebbins Ave., Bronx, N. Y.
Gellman, I.	325 Stanton St., N. Y. C.	Strassburg, A. G.	535 Ninth Ave., N. Y. C.
Ghirlando, F.	176 Irving Ave., Bklyn., N. Y.	Strassler, S.	351 New Lots Ave., Bklyn., N. Y.
Gilardino, T.	443 19th St., West N. Y., N. J.	Tuliszewski, T. A.	154 Engert Ave., Bklyn., N. Y.
Glassberg, H. I.	1334 Eastern Pkway, Bklyn., N. Y.	Tumolo, J.	573 39th St., Bklyn., N. Y.
Goldgraben, Sidney B.	501 W. 183rd St., N. Y. C.	Weinstein, H.	62 E. 7th St., N. Y. C.
Goldman, H.	94-61 133rd Ave., Ozone Park, L. I.	Wielonski, F.	409 Menahan St., Ridgewood, N. Y.
Golos, L. P.	213 Dahill Rd., Bklyn., N. Y.	Zwilling, S. J.	636 Faile St., Bronx, N. Y.



ARCHITECTURE, 1933

Section I

Anderson, W. G., 37-61 81st St., Jackson Hts., L. I.
 Bianchi, C. J., 604 Summit Ave., Union City, N. J.
 Cangialosi, J. F., 685 E. 228th St., Bronx, N. Y.
 Cohen, A. L., 2198 Cruger Ave., Bronx, N. Y.
 Cohen, F. L., 7406 17th Ave., Bklyn., N. Y.
 Cohen, H., 450 Throop Ave., Bklyn., N. Y.
 Doyle, J. A., 2214 Eighth Ave., N. Y. C.
 Dushkin, L. L., 538 E. 175th St., N. Y. C.
 Ginsburg, B. B., 4332 Gunther Ave., Bronx, N. Y.
 Greenberg, A., 21 E. 40th St., Bayonne, N. J.
 Herman, G. W., 475 S. Columbus Ave.,
 Mt. Vernon, N. Y.
 Kiley, J. F., 28-04 33rd St., Astoria, L. I.
 Ledwith, T. J., 41-26 Lincoln Ave., Woodside, L. I.
 Levine, R. E., 380 E. 8th St., N. Y. C.
 Lorenc, J. F., 418 E. 77th St., N. Y. C.
 Maland, F., 200 E. 166th St., N. Y. C.
 Mesnik, D., 2301 Morris Ave., N. Y. C.

Munson, J. A., 101 W. 52nd St., N. Y. C.
 Murman, H., 60-71 60th Ave., Maspeth, L. I.
 Nulty, W. M., 551 40th St., Bklyn., N. Y.
 Petshaft, J., 32 Elliott St., Passaic, N. J.
 Polsky, B. M., 253 Christopher Ave., Bklyn., N. Y.
 Reiner, D. M., 1409 E. 3rd St., Bklyn., N. Y.
 Robak, F., 5814-41 Drive, Woodside, L. I.
 Rosenblum, H., 1001 E. 167th St., Bronx, N. Y.
 Savitsky, B., 22-59 Eleventh Ave., Astoria, L. I.
 Schusheim, J., 130 Avenue D, N. Y. C.
 Shapass, Sam, 269 New Jersey Ave., Bklyn., N. Y.
 Silver, A., 595 Bushwick Ave., Bklyn., N. Y.
 Simon, S. B., 1919 66th St., Bklyn., N. Y.
 Spinetta, A. F., 1261 71st St., Bklyn., N. Y.
 Stephens, E. J., 9330 123rd St., Richmond Hill, L. I.
 Strom, H. T., 1762 Hudson Blvd., Jersey City, N. J.
 Stulberger, Z., 100 Avenue D, N. Y. C.
 Zorfass, H., 407 E. 96th St., Bklyn., N. Y.

Section II

Abbondanza, P. A., 1646 80th St., Bklyn., N. Y.
 Altman, I., 637 Banner Ave., Bklyn., N. Y.
 Aronson, E., 105-20 75th St., Ozone Park, L. I.
 Backof, J. E., 26 Florence St., Great Kills, S. I.
 Beatty, L. D., 89 Lexington Ave., Jersey City, N. J.
 Berman, S., 2114 Daly Ave., Bronx, N. Y.
 Burgard, F. J., 247 Hoyt St., Fort Lee, N. J.
 Carollo, J. M., 184 Stockholm St., Bklyn., N. Y.
 Deisroth, G. F., 131 Merrick Rd., Amityville, L. I.
 Demars, H. A., 1235 Wheeler Ave., Bronx, N. Y.
 Dolgow, E. L., 330 Barrett St., Bklyn., N. Y.
 Drost, J. W., 73-29 53rd Ave., Maspeth, L. I.
 Duchin, I., 1110 Theinor Ave., N. Y. C.
 Frank, B. N., 548 E. 183rd St., Bronx, N. Y.
 Gilbert, W., 676 Quincy St., Bklyn., N. Y.
 Grabin, S., 185 New Lots Ave., Bklyn., N. Y.

Hahn, I., 155 Ridge St., N. Y. C.
 Horn, S., 4705 New Utrecht Ave., Bklyn., N. Y.
 Kirschenbaum, A. I., 635 Essex St., Bklyn., N. Y.
 Klein, J., 1498 E. 32nd St., Bklyn., N. Y.
 Krantz, E. W. F., 703 W. 178th St., N. Y. C.
 Lopez, V., 1827 7th Ave., N. Y. C.
 Lyon, E. C., 138 Byram Rd., Port Chester, N. Y.
 Mossman, M. W., 389 Sterling Pl., Bklyn., N. Y.
 Oczek, C. F., 431 S. 2nd Ave., Mt. Vernon, N. Y.
 Reade, F. A., 519 Fifth Ave., North Pelham, N. Y.
 Rosenthal, G., 1519 Bryant Ave., Bronx, N. Y.
 Sherry, I. S., 394 Chester St., Bklyn., N. Y.
 Sigety, A., 111 W. 190th St., N. Y. C.
 Stammel, E. W., 368 E. 152nd St., N. Y. C.
 Sussman, M., 83 Hawthorne St., Stamford, Conn.
 Taylor, G. T., 553 13th St., West New York, N. Y.

Section III

Aberbach, I., 792 E. 175th St., N. Y. C.
 Alcosser, M., 110 Eldridge St., N. Y. C.
 Barbarite, J. P., 41 Kingston Ave., Bklyn., N. Y.
 Barrows, P. T., 152 Newell St., Bklyn., N. Y.
 Brown, G., 86-34 57th Rd., Elmhurst, L. I.
 Diamond, H. J., 97 Union St., Flushing, N. Y.
 Dyer, F. E., 44 Fifth St., Weehawken, N. J.
 Falcone, V. L., 104-14 Otis Ave., Corona, N. Y.
 Fitzgerald, J. J., 13 Monitron St., Jersey City, N. J.
 Foglia, R. R., 37-13 Ninth St., Long Island City
 Gooding, R. A., 588 Macon St., Bklyn., N. Y.
 Harris, H., 747 Melrose Ave., Bronx, N. Y.
 Juengst, R. H., R. D. No. 1, Brewster, N. Y.
 Kalb, P. A., 5903 136th St., Flushing, N. Y.
 Kolon, S., 2376 Crnelia St., Bklyn., N. Y.
 Leahy, Brendan, 166 E. 96th St., N. Y. C.
 Lewis, D., 103 Stockholm St., Bklyn., N. Y.
 Marinaro, J., 190 Bleecker St., N. Y. C.
 Muska, X. F., 449 Compton Ave., Perth Amboy, N. J.

O'Brien, E. G., 545 E. 133rd St., N. Y. C.
 Pasetto, W. G., 119 8th St., West New York, N. J.
 Pavia, A. M., 91 Finney Lane, Stamford, Conn.
 Reilly, F. M., 2363 Lyon Ave., N. Y. C.
 Reiner, P. H., 3330 88th St., Jackson Hts., N. Y.
 Richman, M., 1014 Home St., Bronx, N. Y.
 Rose, J. J., 1638 E. 52nd St., Bklyn., N. Y.
 Rudolph, N. R., 3421 Astoria Ave., Astoria, L. I.
 Salkind, S., 282 Broome St., N. Y. C.
 Schoff, A. A., 206 E. 67th St., N. Y. C.
 Sinnott, J. J., 101-61 133rd St., Richmond Hill, N. Y.
 Sklarin, H., 246 2nd St., Palisades Park, N. J.
 Slebodnik, J. A., 52-32 66th St., Ridgewood
 Plateau, L. I.
 Wilson, W. R., care f Dr. Robinson, 789 E.
 166th St., Bronx, N. Y.
 Winkelman, E. M., 352 Beach 45th St.,
 Edgemere, N. Y.
 Winning, A., 132-C Park of Edgewater, N. Y. C.



ARCHITECTURE, 1934

Section I

Hatos, A., 19 Highland Ave., Metuchen, N. J.
 Mahony, J. D., 92 Gates Ave., Bklyn., N. Y.
 McBride, G. J., 353 Sixth Ave., Bklyn., N. Y.
 McGowan, J., 174 W. 107th St., N. Y. C.
 McGrath, F. E., 2485 Elm Pl., N. Y. C.
 Meehan, J. M., 380 E. 140th St., Bronx, N. Y.
 Mennonna, A. G., 106 Pocantico St.,
 North Tarrytown, N. Y.
 Miller, J., 94 St. Mark's Pl., N. Y. C.
 Millstein, A. A., 324 Powers Ave., Bronx, N. Y.
 Muller, C. A., 338 Eighth St., Bklyn., N. Y.
 Nachmann, H., 2321 Tiebout Ave., Bronx, N. Y.
 Navan, H., 91 Belmont Ave., Jersey City, N. J.
 Neuberger, W. B., Box No. 384, Fanwood, N. J.
 Never, O., 6638 Pleasantview St., Maspeth, L. I.
 Nevins, J. P., 623 Wilcox Ave., Bronx, N. Y.
 Noonan, R. E., 8734 89th St., Woodhaven, N. Y.
 Palumbo, A. J., 232 Morningstar Rd.,
 Elm Park, S. I.

Persily, C. C., 7 Opal Court, Brighton Beach,
 Bklyn., N. Y.
 Pfeufer, W. G., 215 Audobon Ave., N. Y. C.
 Phelan, J. E., 2038 29th St., Bklyn., N. Y.
 Podell, L., 3941 Carpenter Ave., N. Y. C.
 Polsbie, H. J., 632 Eastern Pkway, Bklyn., N. Y.
 Pomerantz, A. O., 60 Homestead Ave.,
 Palisades Park, N. J.
 Pope, A. M., 253 Parkville Ave., Bklyn., N. Y.
 Port, P., 289 Empire Blvd., Bklyn., N. Y.
 Potenza, S. J., 1473 79th St., Bklyn., N. Y.
 Prenzel, H. V., 9727 Ave. L, Canarsie, N. Y.
 Rashkin, M., 582 Ashford St., Bklyn., N. Y.
 Relf, H. E., 237 Ave. P, Bklyn., N. Y.
 Rems, S. D., 1990 Ellis Ave., Bronx, N. Y.
 Revson, J., 555 W. 173rd St., N. Y. C.
 Schechtman, A., 2335 Valentine Ave., Bronx, N. Y.

Section II

Federico, A., 524 37th St., North Bergen, N. J.
 Kadisch, A. H., 159A 23rd St., Bklyn., N. Y.
 Paolucci, N. A., 105 Sunset Lane, Tenally, N. J.
 Rickmeyer, F. L. Jr., Myrtle Ave. opp. 73rd Pl.,
 Glendale, L. I.
 Ridder, A. F., 42-12 Broadway, Long Island City
 Ries, A. J., 313 Jamaica Ave., Astoria, N. Y.
 Roberts, W. F., 641 E. 224th St., N. Y. C.
 Rosenberg, J., 563 New Jersey Ave., Bklyn., N. Y.
 Rosenfeld, S., 205 S. 3rd St., Bklyn., N. Y.
 Ruskowski, J. J., 642 Cornell St.,
 Perth Amboy, N. J.
 Saia, C. A., 126 Third Pl., Bklyn., N. Y.
 Saravis, J., 1601 Macomb Rd., Bronx, N. Y.
 Savage, W. C., 221 E. 94th St., N. Y. C.
 Schepis, N. B., 2557 Colden Ave., Bronx, N. Y.
 Schneiderman, H., 864 E. 149th St., Bronx, N. Y.
 Segall, D. R., 11 Waverly Pl., N. Y. C.
 Scully, J. S., 338 E. 78th St., N. Y. C.
 Seiderman, N., 1719 Sterling Pl., Bklyn., N. Y.
 Seinfeld, S., 2290 Davidson Ave., Bronx, N. Y.
 Shapiro, I., 855 E. 163rd St., N. Y. C.
 Shapiro, N., 238 Oceanview Ave., Brighton
 Beach, Bklyn., N. Y.

Sherman, C. O., 854 70th St., Bklyn., N. Y.
 Shiffman, I., 172 Bay 31st St., Bklyn., N. Y.
 Shoenburger, H., 8847 Bay Pkway, Bklyn., N. Y.
 Silverman, J. K., 1822 Bathgate Ave., Bklyn., N. Y.
 Silvestri, F. W., 1642 59th St., Bklyn., N. Y.
 Singer, J., 1254 Blake Ave., Bklyn., N. Y.
 Slater, A., 227 Cypress Ave., Bronx, N. Y.
 Stamm, C., 479 Brook Ave., Bronx, N. Y.
 Steen, J. A., 22-38 41st St., Astoria, L. I.
 Stein, H., 2950 E. Second St., Bklyn., N. Y.
 Steiner, D., 205 Powell St., Bklyn., N. Y.
 Steingisser, H., 1006 Freeman St., Bronx, N. Y.
 Szabo, J., 411 E. 82nd St., N. Y. C.
 Tauber, G. J., 445 Stockholm St., Bklyn., N. Y.
 Tebbutt, J. H., 345 E. 142nd St., N. Y. C.
 Tessitore, F., 1950 78th St., Bklyn., N. Y.
 Walsh, R. V., 3117 92nd St., Jackson Hts., L. I.
 Weinstock, F., 217 Beach 76th St., Arverne, N. Y.
 Weisburg, D., 1805 49th St., Bklyn., N. Y.
 Yantsin, N. Jr., 100 St. Nicholas Ave., N. Y. C.
 Youngerman, A., 1280 Commonwealth Ave., N. Y. C.

Section III

Abramowitz, R., 89 Herzi St., Bklyn., N. Y.
 Ackerman, J. W., 127-28 103rd Rd., Richmond
 Hill, L. I.
 Anderson, H. I., 578 Bainbridge St., Bklyn., N. Y.
 Bares, J., 313 E. 71st St., N. Y. C.
 Barnhart, J. A., 780 Elton Ave., Bronx, N. Y.
 Batka, J. Jr., 52-08 44th St., Laurel Hill, L. I.
 Beck, A. H., 353 Montauk Ave., Bklyn., N. Y.
 Bello, F., 329 E. 124th St., N. Y. C.
 Berland, S., 155 E. 168th St., N. Y. C.
 Brown, F. W., 2335 Valentine Ave., N. Y. C.
 Burns, W. F., 247 14th St., Jersey City, N. J.
 Biederman, M., 52 E. 123rd St., N. Y. C.
 Bigley, H. P., 28-28 42nd St., L. I. C.
 Caputo, E. V., 112 Franklin Ave., Bklyn., N. Y.
 Castello, D. A., 44 Rochelle Ter., Mt. Vernon, N. Y.
 Clermont, A. J. Jr., 106 Cox Ave., Yonkers, N. Y.
 Cohen, C., 718 W. 178th St., N. Y. C.

Cohn, H., 102 Post Ave., N. Y. C.
 Cohn, S., 303 St. Ann's Ave., N. Y. C.
 Corner, C., 17 W. 94th St., N. Y. C.
 Cottrell, H. H., 314 Leland Ave., N. Y. C.
 Daines, R. B., Prospect St., Hicksville, L. I.
 Daveluy, R., 312 W. 90th St., N. Y. C.
 D'Elcio, S., 1126 71st St., Bklyn., N. Y.
 DeLong, W. H., 313 St. Marks Ave., Bellmore, L. I.
 Ditrano, D. P., 325 E. 120th St., N. Y. C.
 Ditrano, N. J., 325 E. 120th St., N. Y. C.
 Dohrens, C., 300 E. 92nd St., N. Y. C.
 Ebenstein, L., 2161 Southern Blvd., N. Y. C.
 Emma, J., 47 Bay 25th St., Bklyn., N. Y.
 Escalera, R. O., 30 Lewis St., N. Y. C.
 Gantman, I., 696 Rhineland Ave., N. Y. C.
 Kahaner, H., 500 E. 51st St., Bklyn., N. Y. C.
 Kopelman, I., 1181 E. Pkway, Bklyn., N. Y.



Section IV

- | | | | |
|-------------------|---|-----------------|---|
| DiRocco, N. J. | 108-68 42nd Ave., Corona, L. I. | Hoolan, W. J. | 1072 Jackson Ave., Bronx, N. Y. |
| Dohrens, C. | 300 E. 92nd St., N. Y. C. | Jaudon, E. W. | 156-31 Ellkhorn St.,
Howard Beach, L. I. |
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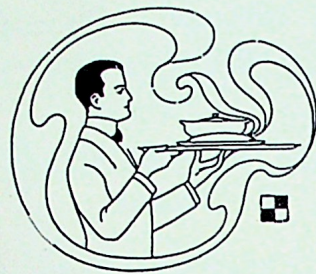
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